# TAAE OYPA'NIOE

The COELESTIAL ATLAS;

Or, A New

# PHEMERIS

For the YEAR of our LORD 1760.

Being the First after

### BISSEXTILE, or LEAP-YEAR.

Wherein are contained

The Heliocentrick and Geocentrick Places of the Planets. the ECLIPSES of the Luminaries, and other remarkable Puz-NOMENA that will happen this Year.

Carefully computed

From the genuine TABLES of Dr. Edmund Halley, late Regius Professor of ASTRONOMY, and Samilian Professor of GEOMETRY in the University of Oxford. ALSO

A Compleat ALMANACK, containing the FEASTS and FASTS of the Church of England; the Times of the LUNA-TIONS; the Rifing and Setting of the Sun, Moon, and Planets, &c. Adapted to the

Meridian and Latitude of the ancient and honourable CITY of LONDON.

To which are added,

Several useful TABLES: As, a TABLE of the Sun's Declination; a TABLE by which the Times of the Sun's Rifing and Setting may be known by Inspection, on every Day in the Year, and in any Part of Great-Britain or Ireland; a TIRE-TABLE, and a very correct one of the Ecliples of Jupiter's first Satelles; and, laftly, an exact TABLE of the Rifing, Southing, and Setting of 30 of the most remarkable fixed Stars: Taken from Mr. Flamfied's Catalogue.

#### By Teacher of the Mathematicks.

OI Beavoi Siny BUTAL SOZAV GEB.

The TWENTIETH IMPRESSION.

LONDON

Printed by T. PARKER, for the Company of

STATIONERS PRICE NINE PENCE Airched 7

### Chronological Notes for the Year 1769.

Golden Number	3	Septuagesima Sun. Jan. 22
Cycle of the Sun	14	Shrove Sunday Feb. 5
The Epact	22	Easter Day March 26
Dominical Letter	A	
Number of Direction	5	Frinity-Sunday May 21
Roman Indiction	2	Advent-Suday Dec. 3

### Astronomical CHARACTERS explained.

8	Aries Taurat Gemini	a Leo W Virgo	m Scorpio  f Sagitary	Capricorn  Aquarius  Fisces
¥	Jupiter ?	Venus 8	D Luna (the Moon)  Moon's N. Node  ner S. Node	ra (or the

6 Conjunction when Planets are in the same Sign, Deg. Min. &c.

3 Sextile when 2 Signs dist.

1 Quartile when 3 Signs dist.

2 Opposition when 6 Signs dist.

### Of the Four Quarters of the YEAR 1769.

THE Spring Quarter begins on the 20th Day of March, at 33 Minutes past 7 in the Morning. Apparent Time.

The Summer Quarter begins June 21st, 21 Minutes after 6 in the Morn.

The Autumnal Quarter begins September 22d, 1 Minute past 8 at Night. The Winter Quarter begins on the 21st Day of December, 45 Minutes after 11 in the Morning.

THE beautiful Planet VENUs is an Evening Star until the 3d Day of June; and after that Time, the becomes a Morning Star, to the End of the Year.

JUPITER is a Morning Star until the 8th Day of May, and after that Times is an Evening Star, until the 25th Day of November; after which Time he will be a Morning Star again, to the Year's End.

A TABLE of the Longitudes, Latitudes, and Magnitudes, of the most remarkable Fixed Stars that the Moon can eclipfe or make a near Appelloner; taken from Mr. Flamfted's Historia Coelestis, and rectified to the Beginning of the Year 1760.

= 8	130	Lon	tue	de.	IL	12 (1)	ud:.	نم	1	-3	Bay	Long	itud	e.	L	ati	tude.	<b>M</b>
fations.	40.3	0	,	Ħ	0	,	"	gni.	-	Confiel- lations.	€b.		,	,		,		Magni.
*	5	y Do	47	37	2	9	44B.	4		-m	C	<u></u> 0	0	37	5	0	22B. 1B.	4.3
	5	16	30	31	0	13	7B.	4	1.		2	6	29 50	31		22 50	53B.	3
Y	ns	23 H17	27 28	40	5	21	7B.	4		Spica	θa	14	52	43	2	45 I	29B.	4
8	n	26	38	28	1	o	37B.	3			<u>χ</u>	m 1	9	c	2	55	40B.	4
k	3.	II 2	25	54	5 2	46	22A. 58A.	3 3 4		, <b>=</b>	2	21	45	17		22 25	51B. 27B.	2 2 4
Ald.	a	6	25	20	-		49 A.		1		6	24	0	58	1	2	52B.	4
	3	13	12	16	5	21	34A. 34B.	4 2	1			26 27	31	24	ó	30 7	4B.	4
П	3	2 I	56	48		51	21A.	3	1	m	75	29	35	4:			31A.	3
1	ν	3	26	40	3	6	3A.	4			R	29	51	16	1	3	9B.	3 2
-	7	5	34	38 57	6 2	47	19 A 30B.	3	1	Co: .	v a	T 1 6	18	31	-	40	50B.	4
	256	11	37	51	2	5	27A.	3.4	1	1	7	27	54	16	6	4	23A.	4 3
	18	19	54	29	6	39	27B.	2	1	+	00/10	VP I	12.	32	,	2,	21A.	3
95	28	Ω 4	11	_	3	9	41B. 46B.	4		Talk.	٨	9	58	32	2 :	4	JA.	4
SI	E	18	18		3	11	23A.	4	ľ		r	11	28	30	511	1	:2A.	4
	0	20	54	28 44	3		50A. 20B.	3.4			7	11	39 55	6		54	38B. 59B.	4
Cur.	7	25	57	24	3	56 56	18A. 38B.	4	-	· V	15	77 O	42 26	17		37	27B.	3
8	a e	mp 3	29 2	10		7	48B.	4	1.	-	3	20	11	34		•	18 A.	4 3
m	3	18	9	22 34		34	4A. 47B.	4		200	9	25	54	27	2 2	3	15A. 47B.	4
			11	371	-		17		_		_		-77			13	1/2.	-

I have inferted this Table to oblige the Curious. If 50 Seconds be added for every fucceeding, and subtracted for every preceding Year, the Longicudes may be found at all Times, and the Latitudes vary not. A TABLE of the Difference of Meridians in Time, from the Royal Observatory near LONDON, and of the Latitudes of several famous C ties, and other remarkable Places. Taken from Dr. Halley's Tables.

Names of Places.	D	ff.N	Ser.		Alt	of	Po	le.	
IVAMES OF FEACES.	n.	ın.	1.		d. •	m.	1.		
Alexandria in Egypt	2	ı	6	Α.	3.1	7	c	N.	
Athens in Greece	I	35	30			5	c	N.	
Babylon in Egypt, Grand Cairo	2	5	45	A	30	2	30	٧.	
Berlin in Brandenburg	0	53		A.		33	C	N.	
Cape of Good Hope in Africa	1	8	o		34		0	S.	1
Cadiz in Spain	0	24	28	S.			30	N.	1
Carthagena in America	15	-0	46	S	10			N.	
Copenhagen in Denmark	10	51	0		55	40	45	N.	1
Dantzick in Poland	I	15	12	3	54	22	c	N.	1
Illand of St. Helen	10	24	0			55	0	S.	
Jerufalem	2	21				55		N	1
London at St. Paul's	0	0	20	S.	51	30	40	N.	
Lisbon in Portugal	0	36	50	S	1;8	42	30	N	
Moscow in Russia	2	41	20	A	155	36	C	N	
Naples in Italy	0		40	A	10	50	45	N	
Obiervatory at Greenwich	0	0	0	-		28		N	
Observatory at Paris	0	9	20	A		50		N	
Oxford	0		4	S	51	45	(	N	
Petersburg in Russia	2			A	. 60			N	
Pekin in China	17	45	20	A	- 39	54		N	
Porto Bello in America	- 5	19					9	1	
Prague in Bohemia	C	59	) (			4			
Rome, the Metropolis of Italy	C	50	• •		41	54		N	
Rochelle in France	C	5		1 3	110		4:	N	
Smyrna in Turky		49	19	) A	.   58	28			
Teneriff Mountain		6			- 28	23	2		
Terra del Gada in Madagasear	12	,		) A	. 119	29	) (		3.
Tornea in Lapland	1	,			. 6;				
Venice in Italy	10	2 4!			45				
Vienna in Austria					48			8 1	
Upsal in Sweden	1	1 11	•	o A	159	51	5	עוי	1.

# A TABLE of the LINGS and QUEENS of Englandince the Conquest.

						-				
Kings and	Born		egan			ned		Ken	n. Deaths	Where
Queens.	A.D.	hei	Regn.	Y.	M.	. D.	Whe	and	Dethron.	Buried.
Will Conq.	1027	1000	Uct. 14:	20	10	201	00	Burit	by Leap.	Caen, Norm
Will, Rutus			Sept. 9		10		43		acciden-	Winchester
Henry I	1058	FICO	Aug. 2	35	4	0	77	tall		Reading
Stephen	1105	1135	Dec. 1			24	49		,	Feversham
-	-		Oct. 25	_	8	12	-			Conteverage
Henry II				34		0	55	Slain	with an	Fonteveraud
			April 6	19	9	13	43		TOW.	Worcester
John			Oct. 19		0	28	65			Westminster
Henry III			Nov. 16				67	1		Westminster
Edward II				34	7	21	1 40	-		Gloucester
Edward III			Jan. 20		5	13	43	1		Westminster
Richard II			une 21					Den	& murd.	
_	1	1 -		1	,	-	33	Deb.	w murd.	
Henry IV			Sept. 20				46	1		Canterbury
Henry V			Mar. 20			11	33	_	100	Westminster
Henry VI	421	1422	Aug. 31	138	6	4	49	Dep	& murd.	Windfor
Edward IV	1442	1461	Mar. 4	22	. 1	5	41			Windfor
Edward V	1471	1483	April o	0	2	15	12	Mu	der'd.	Not known
Richard II	1 1443	11483	June 22	2 2	. 2		42	Slair	in Battle	Leicester
Henry VII	1145	11485	Aug. 2:	2 2 3	. 8	3 (	52			Westminster
Henry VII			April2:							Windfor
Edward V			Jan. 2			5 (	1 23			Westminster
Mary I		1559		6		1 1		Die	of Grief	Westminster
Elizabeth			Nov. 1				7 69			Westminster
James I					_	-	-			
Charles I			Mar. 2				3 58	3.6	b.	Westminster
Charles II			Mar. 2				3 48		rder'd b	Winlfor
lames II			Jan. 3				7 54		licated.	Westminster
Mary II				6 6			7 67		neatea.	St. Germain
William II			Feb. I				1 2		12 Lave P	Westminster
Anne			Feb. 1		,	0 2		- Kill	u by a ra	Il Westminster
			Mar.			4 2.			n mistiorie	Westminster
George I			Aug.				-			Hanover
George II			June			4 14			200	Westminster
George III	1173	311700	Oct. 2	51 .	AA U	OIN	001	5 Lio	hers	

All hail! Great GEORGE renowned Prince of Might, Our King by Providence, and laxful Right, Rome's fatal Foe, and Protestant's Delight, May Peace and Plenty all your Days remain. And Neffor's Years conclude your happy Reign. A TABLE of the most Reverend Right Reverend and Reverend, the Bishops and Deans, exercising Ecclesiastical Jurisdiction, 1769.

The same of the sa				
Bishops	Sees	Date	Succeeded	Deans
H. Dr.F. Cornwallis	Litch. & Cov.	1749	Smalbroke de.	
Arch-Bifhep	Canterb. A.B	.1768	Secker dereaf.	Dr. John Potter
H Dan Dayman	St. Alaph	1748	Lifle tranfl.	
H.DrR.Drummoni	Salifbury	1761	Thomas tranfl.	i a
Arch Bishop	York A. B.	1761	Gilbert deceaf.	Dr. J. Fountdyne
Dr. Rich, Terrick	Peterborough	1757	Thomas transl.	
Dr. Pelen. Lerrick	London		Ofbaldefton de	
Hon. Dr. R. Trevor	St. David's		Willes tranfl.	mas Newton.
raon. Dr. K. Trevor	Durham		Butler deceased.	
30 30 21 2	Peterborough	1747	Clavering dec.	
Dr. John Thomas	Salifbury		Gilbert tranfl.	
	Winchester		Hoadley dec.	Rr. Rev. Dr. Jona
	Landaff		Harris deceased	
Dr. Mate. Mawfon	Chichefter	1740	Hare deceased	. /
The second	Ely			Dr. Hugh Thoma-
D. Elmal Willes	St. David's		Clagget transl.	
Dr. Edward Willes				Ld. Fr. Seymour
Lord J. Beauclerk.	Hereford			Dr. Fran. Webber
	Banvor		Hotton transl.	
Dr. Zachary Pearle	Rachester		Wilcox dec.	Dr. B Newcome
Die Edmund Keene	Chefter			Dr. Will. Smith
n	Gloucefter		Benson deceas.	
Dr. James Johnson	Worcester			Sir. R. Wrottefley
Sir W. Afhburnham	Chichefter	1754	Mawfon tranfl.	Tho. Ball, M. A.
	Landoff		Creffet dec.	
Dr. Ric. Newcome	St. Alaph	1761	Drummond tr.	Dr. Will. Herring
	Brifin	1756	Conybeare dec.	
Dr. John Hume	0 xford		Secker tr.	
1760	Salisbury		Thomas tr.	Dr. Tho. Green
	Bangor		Pearfe tranf.	
Dr. John Egerton	Litch & Cov.			Dr. J. Adder brook
	Briftel		Hume translat.	,
Dr. Philip Yonge	Norwich			Dr. Philip Lloyd
Dr. Will. Warburton	Gloucester			Dr. Jofiah Tucker
	Landaff		www.omb tran.	
Dr. John Ewer 3	Bangor			Dr. Thom. Lloyd
Dr. John Green	Lincoln		Themas tran.	Hon. ohn York
Or. Thomas Newton			Yonge tranfl.	Dr. Cutts Barten
Dr. Cha. Lytrelton				Dr. Tho. Wilfen
Hon Dr. Fred Keppel				Dr. Jer. Milies
Dr. Robert Lamb				Dr. Ch. Tarrant
C			Squire deceaf.	
Dr. Robert Lowth }				Dr W. Markham
Dr. Char es Mols				J. Morgan B.DPr.
Dr. Jonat. Shipley				J. Fulham A. M.
Januar		1768		Dr. John Thomas
Dr. Mark Hildefley S			Wilson deceas.	
		1765		Dr. Fred. Keppel.
		1-3	-	

### The Names of the Learned Judges of rhe Law.

The Rt. Hon. Charles Lord Camden, Lord High Chanceltor of England. Rt. Hon. Sir Thomas Sewell, Knt. Master of the Rolls.

In the King's Bench. Rt. Hon. William Ld. Mansfield, L. C. J.

ir Joseph Yates,

The Common Pleas, R. Hon. Sir J. Eardly Wilmot, Knt. L. C. J. Sir Edward Clies, Knt. Hon. Hen, Batburff . E'q;

The Exchequer. Sir Thomas Parker. Lord Chief Baron.

Sir S. Stafford Smythe. Sir Rich. Adams, Knts. George Perrott, Efq; Edward Willes, Efg: | Sir Henry Gould, Knt.

William de Grey, Eig; Attorney-General. John Dunning, Esq; Sollicitor-General.

#### their RETURNS: TERMS and

#### Hilary Term begins Jan. 23, ends Feb. 13.

ľ	Returns or Effoign-days.	Exc.	Ret Ap	W. D.
	In eight Days of St. Hilary, Jan. 20			
	From the Day of St. Hilary in 15 Days, 27	28	29 30	Mond.
ı	On the Morrow of the Purif, Bleifed Mary, Feb. 3	4	51.6	Mond.
ŀ	In eight Days of the Purif. of Bleffed Mary, 9	10	1 11113	Mor.d.

#### Eafter Term begins April 12, ends May 8.

From the Day of Easter in 15 Days,	April 9 10	11	12, Wedn.
From the Day of Eafter in 3 Weeks,	16 17	18,	19 Wedn.
From the Day of Easter in I Month,	23 24	25	36 Wedn.
From the Day of Eafter in 5 Weeks,	May 5 M 8	1	3 Wedn.
On the Morrow of the Ascension,	May 5! 6	7	8 Mond.

#### Trinity Term begine May 26, ands June 14.

On the Morrow of the Holy Trinity,	May 22   23   :	
in eight Days of the Holy Trinity,	7 une 4 5	6 31 Wedn.
In 3 Weeks of the Holy Trinity,	June 4 5	3 14 Wedn.

#### Michaelmas Term begins Nov. 6, ends Nov. 28.

On the Morrow of All Souls,	Nov. 31 4	i 51 6 Mond.
On the Morrow of St. Martin,	12 13	5 6 Mond. 14 15 Wedn. 20 21 Tuefd. 27 28 Tuefd.
In eight Days of St. Martin.	18 19	20 21 Tuefd.
In 15 Days of St. Martin,	25 26	27 28 Tuefd.

N. B. No Sittings in Westminster-Hall on Ascension-day, Midfummerlay, and the 2d of February.

The Exchequer opens eight Days before any Term begins, except Triniy, before which it opens but four Days.

Note. The first and last Days of every Term, are the first and last ays of Appearance.

New Mop: the 8th Day, 27 M nutes after 2 in the Morning.
First Quarter the 15th Day, 58 M nutes past 7 in the Morning.
Full M on the 22d Day. 25 Minutes after 3 in the Morring.
Last Quarter the 29th Day, 56 M nutes past 7 at N ght.

-	-				-		-	4		-				9
M	Sundays a	& other	Sun	Sun	Dec		Dec.		Mo		Mo	on	Clo	ock
D.	Mar la	re Lays.	File 8.	fers.	antiti	th.	Sout	h.	rife	8.	Sh.t	h. 1	net.	Sun
A	1 5. ait. 1	·hailles	Circum	cilion.	1:2	58	15	21	TA	144	68/	1,38	4	22
	a we dite t	-111 Illinite			22		18							
2					1	53		53	2	53	7	21	4	50
3		- 10	8 3				21	40	3	59	8	7	5	18
4			8 2	1 3 3	22	41	23	30	5	2	8	56	5	45
5	Old Chris	A. Div.	8 1	3 50	122	34	24	18	6	7	9	45	6	12
6	Epiphany		8	4 (	2	26	2.2	56	6	50	10	36	6	38
-	Philam	•		1 7		19	22							
7 A	0 - 0		7 59	4		-1		44	7	32	11	30	7	4
	1 S. aft.		7 58	4 2		10	19	44	~	ets.		18	7	29
	Plow Mo	onday.	7 57	4 3		3	16	0		.56	I	7	7 8	54
10	The Late of		7 56	4 0	21	35	11	23	7	11	1	56	8	19
17		100	7 5	4	21	43	6	24	8	27	2	4.2	8	43
	OldN, Y	asseDass	7 54			33	0	54	9	45	3	20	9	7
13	Camb. T	carsibay.	Hilary			23	4N		11	4		18	9	30
	Oxf. Tel		7 5			12	10	10	Mo		4	6	-	52
						1	15	8	0		5		9	12
A	ž Sun. at	t. Epipin.	7 51	4	121		15			24	5	57	10	12
16			7 5	, 4 10	20	50	19	20	1	47	6	52	10	32
17	O. Twel	fth Day.	7 4		1 20	38	22	24	3	8	7	51	10	53
18	Q.Char.l		7 4	3, 4 1	2 20	26	24	4	4	25	8	51	11	10
19	C.Onai.	-	7 4	6 4 1	1 20	12	24	17		31	9	52	II	28
20	Fabian B	& M	7 4	5 4 1			22	36	5	22	10	50	II	46
-	a dolari			-	_	_	-		-		10	-	_	-
21	Agnes V	. & M.	7 4			46		40	7	1	H	46	12	3
A	Septuag.	Sunday.	7 4		8 19	32		36	)	iles.	Mo	rn.	12	19
23		gins.	7 4	1 4 2	0 19	18	10	52	6/	1.30	0	40	12	34
24			7 3	4 2	1 19	4	5	44	7	46	1	28	12	48
2;	Conv. S	t. Paul.	7 .3		2 18	49	0	28	Ś	58	2	14	13	2
26	-				-								-	-
			7 3		3	34 18		.41	10	9	2	58	13	15
27			7 3				9	33	11	18	3	41	13	27
28			7 3		-	2		54	Me	orn.	4	23	13	38
A		Sunday.	7 3			46		42	0	26	5	7	13	48
30	K. Char.	I. Mart.	7 2	8 4 3	2 17	30	20	44	1	35	5	53	13	57
31	17.1		7 2	7 4 3	3 17	13	22	55	2	41	6	40	14	6
	Day	Length	Helion			_	He		H.	lioc.	L.	lioc.	-	aıu
Days		of Day.	Plac.	Plac 2			Pla				فطعانا		1	
1 3	nereal.	or Day.	-	-	4 -				Pla		Pla	c. 9	11	ies.
7	0 8	7 52	14952	6 81M2	9 03		IIG	628	6'	V20	191	1132	4	A 3
17	0 18	7 5 <sup>2</sup> 8 2	14 3	9 8 5		16	17	35	15	54		117	1 0	ets.
13	0 30	8 14	1				23		25	20		47		M29
119	0 44	8 28			2 19		29	49				34:	17	2
25				1 /	0 22		58				28	74.		35
1-3		1 4			1		. 20	(2)		7'			1	33

Sefor.

i	-	-	-	1	anua	ırv	1 4	6)						-	-
		D. 1:	(1) and a									T	( . )		
	Days	Daylig. b gins.	Dayl g	Durat.   Twilig.	Node Din'vy	Sout		Lat.	Th.		th.	Lac.		Sou	
ı	7	5 59	6 1	2 10	2 4	-	3	1	3	-	14	1	48	0	10
-	-	5 56	6 4	2 9	2 2	I	3	1	3	1	19	I	42	0	50
-	13	5 54	6 8	2 7	2.	1	4	I	4	1	2.7	I	33	1	27
	20	5 46	6 21	2 5	1 4	, ,	4	1	4	I	27	1	5	2	48
		(0)	Vp.			1	69	21		_		0		~	1
	Doy.	d. m		) ==	) Lat	R	}	7	m	3	5	\$	***	Ď	7
1	A		8 29	28 20	4 5.4		48	16	59	3	45	16	2	2.5	37
1	3		9 40	10 11 12	3 3		38	17	18	4-	24	17	16	27	34
1	4		2 1	3757	2 3	14	33	117	27	4	47	.9	43	ov	
-	4		2 11	12 28	1 3		33	17	37	5	9	20	57	1	34
-	C		4 20	28 9	0 2		23	17	47	- 5	32	22	10	3	5
1	7 A	17 3	6 38	10V732	ON.4	8 14	18	17	57	5	18	23	37	4	37
١	9	19 3	7 47	6 00 2	2 5		8	.8	15	6	42	25	50	7	42
ı	10	20 3	8 55	19 9	? 4	7 14	4	18	25	7	6	27	2.	9	15
I	11		10 4	2 € 30	+ 3		59	18	34	7	30	28	15	10	48
ı	12		1 12	16 4	5 3	1 2	54	18	43	7 8	55	29	28 €40	12	56
į	14	,	3 20	13746	5 1	1 -	44		0	8	45	I	53	15	31
ı	A	2: 0	4 22	27 40	4 4	7 13	39	'0	9	9	11	3	5	17_	7
ľ	10	26 4	5 37	1.81	4	1 3	35	19	17	9	36	4	18	18	43
ı	17		6 42	10∏4€		1 13	30	19	34	10	28	6	3° 43	20	55
ı	19		8 49	2, 2	0 4	5 13	20		42	10	55	7	55	23	32
j	20	200 A	9 51	(60)	0S 3	3 17	15	19	50	11	2.2	9		25	10
Ì	21		53	23 26	1 4		11	19	57	11	49	10	20	26	49
ı	A 23		54 54	701:	3 5	3 13	6	20	12	12	17	11	32	28 c≋	29 29
į	24		3 52	4mpit	4 3	4 12	57	20	20	13	11	13	56	1	50
	25	5 5	4 50	17 14	,	1 12	52	,0	27	13	*9	15	8	3	31
	26	6 9	5 47	29 52 12 1	5 4	12	49	10	34	14	7 36	16	20	5	12
	27	7 5	6 44	24 21	5 4 5		4.	20	48	14	30	17	32 43	8	5 <b>4</b> 37
1	A		8 3:	6mi	4 2	12	36	20	55	1.5	33	19	54	10	21
1	30	10 5	9 28	18 IC	3 3	8 12	32	21	2	16	2	2 I 1 2	17	12	6
1		Junter	Mars	Venus	Meicu		-	Dec	7	Dec	31	Dec		L3 Dec	52
	ays	rif s.	fets	fet.	rifee,	Nor	th.	Son	# h.		п.	Soul		Soy	
1	1	3M32	2M33	6 A 47	6 M	3 22	19	10	56	13	-56	17	47	23	34
-	7	3 10	2 19	7 14	7 1		2 }	16	13	14.	45	15	21	24	14
-	13	2 49	2 7 I 57	7 30	7 2	4.	27	16	27	15	38	9	51	24	10
-	25	2 7	I 45	8 4		5,22		16		17	24	6		21	23
	~	-		-	The same of the same of	-		-		-	-				-

New Moon the 6th Day, 4d Minutes past 5 at Night.

First Quarter the 13th Day, 42 Minutes after 3 in the Asternoon.

Full Moon the 20th Day, 26 Minutes past 5 at Night.

Last Quarter the 28th Day, 17 Minutes after 5 at Night.

ı	-	Last Quarter th	e 28th L	)3y, 17	Minutes	safter 5	at Night		
ı	M	Sund ys & other	Sun	Sun		Dec. )	Moon	Moon	Clock
ı	D	emaikableDays.	rifes.	fets.	South.	South.	rifes.		bef.Spn
ı	-		7 26	4 35	16 56	24 4	3M4C	7M 29	14 14
ı	2	Purit. B.V. Mary	7 24	4 37	16 37	24 7	4 34	8 18	14 21
	3		7 22	4 39	16 2:	23 C	5 19	9 8	14 27
ı	Δ		7 20		16 2	20 43	5 50	10 1	14 32
ł	A	Shrove Sunday.	Agatha		15 44	17 27	6 26	10 51	14 37
	6		7 16	4 44	15 26	13 5	) fets.	II 42	
ı	7	Shrove Tuesday.	7 15	4 45	35 7	8 3	0 A. 6	CA.31	
ı	8	Ash Wednesday.	7 13	4 47	14 48	2 23	7 24	I 19	14 43 14 45
6	9		7 11	4 49	14 29	3NIC	8 44	2 9	14 46
ı	Ic		7 10	4 51	14 9	8 46	10 6	2 59	14 46
	_		7 8	4 53	13 49	13 - 56	11 30	3 50	Statement of the last
	A	I Son, in Lent.	7 6	4 55	13 2	18 19	Morn.	4 44	
	13	Term ends.	OldCan		13 9	21 39	0 51		
1	14	Valen. B. & M.	7 3		12 49	23 37	2 9	6	14 43
ı	15	Ember Week.	7 3	5 C	12 28	24 7	3 17	7 40	14 38
ı	16		-	5 2	12 7	23 5	4 17	8 39	
f	17		6 50	5 4	11 46	20 40	4 .56	30	14 34
£	18		6 5	5 6	II 25	17 5	5 29	10 29	
	A	2 Sun. in Lent.	6 53	5 8	11 3	12 40			
ı	20		6 51	5 10		7 42		Morn.	14 17
ľ	21	-	-	5 12	10 20	2 31	6A 37	0 4	-
ı	22		6 49	5 14	9 58	2S. 42		0 51	14 3
ı	23		6 4:	5 16	9 36	7 38	7 48 8 59	1 33	13 55
	24	St. Matthias.	6 43	5 18	9 14	12 14	0 8		13 37
1	25	* ·	6 4	5 20	8 52	16 15	11 37	3 1	13 27
	A	3 Sun, in Lent.	6 39	5 22	8 29	9 35	Morn.	3 46	
ľ	27	3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	6 38	5 23		22 7	0 24		13 17
1	28		6 36	5 25	,	-	I 37		12 54
H			3			-3 33	"		12 34
ı					-				
1									
1	0	Day , Length	Hel.oc.	Helioc.	Helioc.	Helioc.	Heliec.	Helioc.	Saturb
1	Days	increaf. of Day.	Pla. ]	Pla. 2	Pla. 2	Pla. O		Plu. C	fets.
1	7	1 25 9 9	159635	_	-		25×55	-	
1	7	1 " ! ]	15 40	11 10	28 44	19 6	5 II 34	16744	6 M.5
	13	2 7 9 51		1 47		25 30		167 ic	5 39
	19	2 31 10 15	16 16	12 14	4 32	10012	24 56	20851	4 51
	25		16 29			7 14		28 II 3C	4 28
B	-		1						

Black Finches time up the 24th

Send out

1,00

1				F	ebrua	ry 1	769.			
ì	Days	D.ylig begins	Dayl g.	Durat Twilig.	Node ) invy		Lat. 1	Lat. &	Lat. Q South.	Lat. Q South.
ı	7		6 30	2 0	1 1	0 1	1 6	1 -		2 0
	7		6 48	59	0 41			1 34	oN. 3	0 57
1	19	5 0	7 10	I 57	29 7 41	0 15		I 36	0 27	ON II
1	25	No. of Concession,		2 1	) La	15 gc	-		5 ×	Z ##
1	Daye		n. l.	11 58	18.,0	12 24	-	17 c	23 20	15 31
	1 2	13	1 0	23 58	0 47	12 20	21 21	17 30	24 40	17, 25
	3 4	15	2 47 3 31	6 V9 16	0N.20	12 17		18 29	25 51 7 1	19 12 21 0
	A	17	4 19	1247	2 7:	12 9	21 28	18 19		22 49
	7	18	5 3 5 45	28 29	3 29 4 16	12 6		9 59	οY33	24 38 26 28
	3	20	6 28	12 + 17	4 49	11 19		20 30	2 54	28 17 6
	9		7 46	10 7 27	5 4	11 52	22 3	21 31	4 4	1 56
	11		8 23 8 58	24 45 8852	4 44	11 49	22 8	12 1	5 14	3 45 5 34
1	13	25	9 32	23 1	3 13	II 43	22 17	23 3	7 33	7 22
1	14		0 4	7 II 7:	2 9 0 57	11 40	22 25	23 · 35 24 6	9 5	9 9
1	16	28 I	1 4	18 52	05.18	11 35	22 24	24 38 25 9	11 1	13 38
	17	29 I → I	2	2833	2 37	11 30	22 3t	25 41	13 19	1; 58
	A 20	2 1	5	16 . 41	3 34 4 18	11 28 11 2	22 40	26 - 13 26 45		7 33
- 2	21	3 1	3 7	121/26	4 48	11 24	12 4	27 17	6 45	20 30
-	22	4 I	3 26	25 14 7₽4:	5 0	11 22 11 20	22 48	17 50 18 22	17 53	
	24	6 t	3 58	20 4 2M 0	4 47	11 18	22 56	28 54	20 8 2	34 17
-	A	8 1		14	3 41	11 14	22 58	9 59	22 23	20 14
	27	9 1.		7 7 4	2 53	11 13	23 0		23 30 2 24 38 2	
1			. 73							"
-										
1	Days	Jupiter rifes.	Mars fets.	Venus	Mercu.	Dec. b	Dec. 1	Doc. of		Dec. C
1	3	1M42	EM40	8 A 2	4 A42	22 37	17 3	18 25	3 15	
	7	I 21	I 33	8 42	5 25	22 40	17 31	9 16	3N. 3	9 42
п	19	0 39	I 22	6 17	6 44	22 44	17 21	20 53	6 8	4 46
1	25	0 18	1 17	9 34	7 6	22 40	17 24	21 37	91 10	Q 25

nlave & other, Sun , Sun | Dec. O Dec. 1 Moon | Moon | Clock

New Moon the 8th Day, 28 Minutes post 6 in the Morning. First Quarter the 14th Day, 32 Minutes past 11 at Night. Full Moon the 22d Day 38 Minutes after 8 in the Morning. Last Quarter the 30th Day, 65 Minutes past Noon.

	D.	remarkal	ole Days	ri	"S.	Se	ts	Sou	th.	Sou	h.	rif	es.	Se	th.	bef.	Sun
	I	David.		6	34	5	27	7	21	24	1	21	124	6:	1 9	12	42
	2	Chad. B.	Litch.	6	32	5	29	6		23	21	3	13	6	59	2	30
	3	100		6	28	.5	31	6		2 [	33	3	53	7	51	12	17
100	4	B //: J Tour	Cum Jan	-		000	33	6	49	18	40	4	27	8	43	12	4
		Midlent	Sunday	6	-		000		-	-	47	4	53	9_	30	I I	50
	6	D		6	2-	5	37	5	26	10	4	5	16	10	2+	1.1	35
	8	Perpetua	IVI.	6	20	5	39	4	39	4 1 N	42	5	g7.	0/	13	II	20
Asire	9			6	18	5	43	4	16		47	7 A	.49	0	55	0	48
good	10			6	16	5	45	3	57	12	22	9	1.	I	46	10	32
	U			.6	14	-5	47	3	20	16	59	10	40	2	42	IO	16
	A	5 Sun. ir	Lent.	Gr	eg. E	R	ome	3 .	5	20	41		rn.	3	40	9	59
-	13			6	CI	5	51	2	42	23	3	0	2	4	40	9	42
	14			6	8	5	53	2	18	2.3	54	1	14	5	41	9	25
	15			_		5	55	1	54	23	12	2	15	6	38	9	
- 0	16	a . 5		6	4	5	57	I	31	2.1	58 58	3	0	7	34	8	50
COM	17	Camb I Oxf. T.	ends.	6	2	5	59	1 0	7	17	48	3	37	8	18	8	32
	A	Palm Su		1 5	58	6	3	0	19	9	7	4	26	9	6		56
	20	Z 11244 00	Trong 6	1 5	56		2	ol		4	8	4	46	10	52	7	38
	2 I	Benedict	A bhor.	1 5	51	6	7	0	28	IS	1	5	2	11	3.5	-	20
	22	Denearce	110000	1 5	52	6	- 9	0	52.	6	2		ifes.	Мо		7	1
	23	Maundy	Thurfd		50	6	11	1	15	10	42	84		0	19	6	43
Contraction.		Good Fr		5	48	6	13	1	39		53	9	9	1	3	6	24
-	3.5	Lady-Da	ý.	5	46	6	75	2	2	18	25	10	18	I	48	6	6
		Bafter D		5	44	6	17	2	26	21	7	11	22	2	34	5	47
		Easter N			43	6	18	2	• • •	22	56	Mo		3	20	5	28
		Easter T	uelday		41	6	20	3	7	23	42		21	4	9	5	10
	29 30			5	39 37	.6	24	3	59	23	_0 4	I	12 55	5	50	4	51
	7.5			5		1 .	26			19.	38		33	5	40	4	32
	0	Div	Lengt	h H	· lioc.	He	i-oc.	He	inoc.	He			l·ac.	-	hec.	-	nin
		increas.	of Day				c. 1					Pla			Q.5		ts.
	1	3 9	10 5	: 16	9538	12	111 1	90	017	110	1135	110	7	220	6:7	41	MII
	7	3 33	11 1	7 16	52	13	23	12	7	17	15		51		140	3	49
F 1	13	3 57	11 4			13		14	55		14		N35	221	49	3	27
1	9	4 21	12	5 17		14		17		29	(I)	4			-24		5
	25	4 46	12 3	0 17	32	14	51	20	28	1 5	<u> </u>	120	6	41	1152	2	44
1	0	. / 1	11				.1		-	1/							

Heifers time up the 10th Walker bull the 8th at Pichering's Bull'd again the 29th at Sam! Eyre's

							- 14				-							
1						M	arc	h	17	69	• "			- 11	-			
I	DI	Daylış	1	aylig.	Durat.	No	de.	Lat	1-1			Lat.	8	Lat.	Q	Lat.	Q	-
1	4	negins.	1	enos.	Twilig.	7.	_	Sou		Nor		No		Non	-	Nor		
	7	4 4		7 30	1 55 1 56	29	28	0	13	I	10	I	37 37	1	42	3	32	-
	15	4 1	7	7 43	I 57	28	49	0	12	1	12	I	36	2	1 1	. 3	26	
1	1	3 50		7 56	1 58	28	30	0	110	I	13	1	36	2	40	2	25 53	
1	luay	10	-	<b>€</b>	) 1			b	50	T	111				-	-	<b>€</b>	
	-	-	m.	ſ		_	1	F	-		11[	3	П	2	7	Q		1
I		11	14		19 39 1 <b>179</b> 43	0 N	5.57	11	10	23	3	2	37	25	45	28	30	
1	1	13	14		14 1	1	12	11	8	23	56		43	27	58	28	40	
1	4	14	14	59	26 40	2	14	11	7 6	23	6	1 3	17	29	4	28	42	1
-	-	16	14		9 2 4 1	3 4	12	II	-	23	-	3	23	30	15	28 E	21	1
-		17	14		6×59	4	37	II	5	13	7	4	57	2	20	27	58	١
-	?	18	34	43	21 12	4	58	11	4	23	8		30	3	26	27	28	I
1	10	19	14		57 40 20 17	4	59 41	11	4	231	& 8 8		37	4	31	26	50	I
1	7	21	14		4855	-		: 1		23			11	0	38	25	17	1
	F	22	13		19 27	3	13	13	3	23	7	7	44	7 8	42	24	25	ı
1	13	23	13		3 1147	2	10	11[	-	23	6		13		46	23	30	I
1	14	24	13		17 50		5.1	11	3	23	5.4	1	5 <sup>2</sup>	9	49 52	2.2 2.E	34 38	l
	16	26	12	-	15 32		26	II	4	23	2		0	II	5(	:0	43	-
	17	27	12	AI	28 53	2	3	13	5	23	C		34	12	58	19	50	l
1	18 A	28	11		125 20	3	12	II	5	22	59 57	II	8 42	14	C .	13	15	
1	20	Y	70		8mp24	4	4:	11	7	22	55		17	16	2	17	35	l
	31	1	10	10	21 10	4	5.8	1 1	8	23	52	12	51	17	3	17	0	-
1	22	2	9	35	3 <del>2</del> 43	4	59	II	9	22	50	13	20	18	3 6	16	29	ı
	23	3 4	5		28 12	4	47	ΙI	I	12	47	4	35	20	3	15	46	1
ı	25	5	_ 7		10M13	3	4:	11	13	23	4:	15	9	21	2	15	34	
	A	6			22 5		5€	· E	1.	22	35		44	12	1	15	27	-
	27	7		10	3755	2	2	II	12	12	32	16	53	22	59 57	15 15D	25	1
	29	9		1 33	17 34	10		11	20	12	28	17	28	24	54	15	40	-
	30	10		3 41	97936		4	II	2.	22	24	18	3	2.5 2.6	5: 47	15	55 15	1
	31	Jupit	-1	Mas	Venus	-	rcu.	Dec		Dec		Dec	37	Dec.	9	Dec		١
	Days	riefs.		fets.	fets.		ts.		rth.	Sou	th.	Nor		Nort		Nor	th.	1
	1	011.		IMI;	9 146	78	١. ٢	2.2	47	17	26	22	6	11	7	1	35	1
	7	11A.3	8	1 10	10 4	6	46 (cs.	22	48		20	22	45	13	53	2	24	1
	13		4	X 4	10 38		M24	:2	49		24	23	19	18	31 55	2.5	37	1
	12.		30	1 c			8	12		117	18		14	21	5		53	-
	-	-		-			-	Jan		-	6 -	-	-		-	1		

10 10 4 10 7 10 C 10 Blackatops bulled the

New Moon the 6th Day, 46 Minutes past 4 in the Asternion. First Quarter the 13th Day, 3 Minutes after 8 in the Moraing. Full Moon the 20th Day, 46 Minutes after Midnight. Last Quarter the 29th Day, 51 Minutes past 4 in the Morning.

	-								-
	M	Sundays & other	Sun	Suc	Dec. (		Moon		Cleck
	D		rifes.	fets.	North.	South.	rifes.	Struth.	bet Sun
	1		5 33	6 28	4 46	16 13	3M 0	7M31	3 5.
	A	Low Sunday.	5 31	6 30	5 9	,11 56	3 25	8 19	3 37
,	3		5 29		5 32		3 45	9 7	3 19
		St. Ambrole B.	5 27	6 34	5 55	1 26	4 6	9 56	3 0
	_5	Oxf. & C. T. beg.	Old Ta	dy Day.	-	4N.30	4 26	10 45	2 42
	6		5 23	6 38	6 40	9 58	) lets.	11 39	2 24
	8		5 21	6 40	7 2	15 7	8A.22	OA.30	2 7
ı			5 19	6 42	7 25	19 19	9 47	2 35	1 50
•	10		5 17	6 46	7 47	22 14	Morn.	2 37 3 49	1 32
ı	-					-			
1	11		5 13	6 48	8 31	23 15	0 18	4 41	0 58
	13	Term begins.	5 10	6 50	9 15	18 31	1 5 1 45	5 39 6 35	0 42
	14		5 8	6 53	9 36	14 37	2 14	7 24	0 11
-	15		5 6	6 5	9 48	10 9	2 39	8 12	caft. 4
-	-	3 S. after Easter.	5 4	6 57	10 19	5 13	3 0	8 58	0 10
	17	2 of areas marrers	5 2	6 59	10 40	0 10	3 17	9 41	0 33
1	18		5 0	7 3	z z	4 S.46	3 34	10 25	0 47
1	19	Alphege A. B. C.	5 0	7 3	11 28	9 26	3 51	11 9	1 1
ı	20		4 56	7 5	1 42	13 44	Drifes.	11 54	1 15
1	21		4 54	7 7	12 3	17 23	84.13	Morn.	1 28
-	22		4 52.		12 23	20 21	9 18	0 37	I 40
ĺ		4 S. after Easter.		rge.	12 43	22 21	10 18	1 34	I 52
	24	Co. No. 1	4 49	. 1		23 24	11 13	2 23	2 3
-		St. Mark.	4 47			23 26	1 X 58	3 3.	2 14
-	26	1	4 45	-01	. 3 T-		Moru.	3 52	2 25
	27	. 1	4 43			20 11	0 35	4 41	2 35
- 1	20	11.1	4 40			17 13 13 10	I 7	5 29 6 16.	2 45
1	A	Rogation Sunday	4 38	,	4 38	8 43	I 33	7 5	2 54
-	9	Section Summay	7 30	1 -3	T 30	73	- 34	' 3	3 4
	E	Day   Length E	Telion	Helioc	Jelion	Helioc.	Helioc.	Helior. 5	aturn.
1.	Dave							lac. O	
1-	<u>~</u>		-	-	1.		_		2M20
1	7			1511[24 2	5 2:	7 56 1			2 0
1,	13	5 57 13 4/1		6 10 2				A 7 7 6	38
	او	5 21 14 41		- 21-				5VP14	1 17
	5	5 43 14 27 1	8, 421	. 1	4 31	/3			571
,	<u></u>	- Agreement	-	-				,	

Sefs ?

Sitting

Ī		4				Ų	A	pr	1	17	69.							_
-	Day	ylış. begins		aying.	Dur Tw		No ) in		Lat.		Lac.		L it	් ර th.	Lat.		Lat.	
1	1	3 3	3 5	,	2	3	27	48	0	10	1	14	1	35	3	38	0	44
١	7 3	3 I	7 2 8	8 43	2		27	10	0	8	1	14	I	34	4	19	2	25
1	9	2 4	7 9	13	2	15	26	52	0	8	1	15	I	32 31	4	33	2	43
1	25	-	6	2 4	2	25	20.	33	-	~7	i I	m					-	-
	Days	d.	m.	s.	)	200	DI	at.	b	9		٤ر	8	П	\$	8	δ	X
1	1	12	1	50	4	29	-	N s	11	26	22	16	19	12	27 28	43	16	39
	A. 3	13	59	52	37 07	30 (19	3	5° 3°	II	31	22	7	19	47	29	33	17	41
	4	14	58	50	14	58	4	55	II.	33	22	53	20 2 I	57	0[	20	18	20
	5	16	57	46	29	221	5	2 0 X	II	35	21	53	22	7	2	13	19	47
	7 8	17	55	39	147 29	8	4	48	11	41	2 I	48	22	42	3	5	2.0	34
	8 A.	18	54	20	142	310	3 2	24	11	44	2 I	43	23	18 53	3	56 46		20
	10	20	53 51	54	131	- 1	1	6	11	49	2 I	32		28	5	36	23	19
	11	21	50	38	28	10		. 12	II	52.	2.I		25	38	6	25	24	20
	13	22	49	20	120	512 53	2	35	FT	5 <b>5</b>	21	14	26	13	7 8	13	25	23
	14	24	46	38	95	115	3	29	12	6	1	9	26	48	8	46		38
	15 A.	-	45	14	22	23	4	14	12	10	-	55	27	24	9-	32	28 0 V	49
	17	27	43	47	17	2 54 ~ 54	4 5	46	12	13	20	49	38	59 34	11	1	I	17
	18	1	40	49	12	22	5	4	12	17	20	<b>42</b> 35	29	10	11	44	3	35
	20		39 37	44	24	39 48	4	52 27	12	25	4	28	1 -	524	13	5	5	17
	21		36	9	61	1145	2	-50		29	20	2	0	51	13	44	6	41
	22   A		34	3 <sup>2</sup> 53	18	40 1 30	3	38	12	34 38	20	8	1 2	31	14	59	8	35
	24	4	31	12	12	18	I	8	12	42	20	3		42	15	36	11	4
	25	-	29 27	44	63	8	0	1 50	12	52	19	47	3	34	16	44	14	35
	27	7	25	57	128	79° €	2	₹.59 1	12	- 56		<b>4</b> C	4	30	17	16	15	19
	20	-	24		02	₩ 17	2	59	13	6	119	32	5	41	17	46	18	21
	A		20		25	51	4	31	13	10	1 -	17	5	17	18	41	20	42
	-	Tu		M	177		-		_		-		Dec		-	-	-	
	Days	Just		Mais fets.		nus ts.		rcu. les.		i. h		c. II		rth.	Dec Nor		Dec Seu	
	1	JOA	2	oM 56		A., 1		V155	22	49		3.3	21	37	= 3	13	5	57
	I 3		38	0 51		23 30		46	1	44	17	53	24	53 59	5	45	3	37
	10	8	46	0 3	11	34	4	20	122	47	16	43	25	)	.5	50	0	56
	-	4 9	20	0 3	111	33	1 4	2,2	2.2	45	180	72	24	. 8	1:7	25	2	. 1

New Moon the 6th Day, 11 Minutes after 1 in the Morn.
First Quarer the 12th Day, 43 Minutes past 5 in the Asternon.
Full Moon the 2cth Day, 46 Minutes after 4 in the Asternoon.
Last Quarter the 28th Day, 38 Minutes past 4 in the Asternoon.

	-								
1	M	Sundaye & other		Suu	Dec. (		Moon	Moon	
	Γ.	remarkable Days.	rites	fest.	No th.	South.	rifes.	South.	affe un.
-	-	St. Phil. & James	4 35	7 25	15 14	3 34	2M13	7/153	3 10
	2	our mines james	4 34	7 27	15 32	1 N 57	2 33	8 40	3 18
	2	Inv. of the Crofs.	4 33	7 28	15 50	7 33	2 53	9 30	3 25
	4	Holy Thursday.	4 31	7 30	6 7	12 54	3 1.	10 23	3 31
	7	zzory z municipy	4 30	7 31	16 24	17 33	3 43	II I	3 37
	-	C. T A D. T	-			-	-		31
	U	St. John A. P. L.		7 33		21 3	) iets.	0A 2:	3 42
ı	8	6 S. after Easter.	4 26	7 35	6 58	,		1 2-	3 47
	-	Term ends.	4 25	7 3	17 14				3 51
i	9		4 23	7 38	17 30	2	Morn.	3 32	3 54
	-			7 35	7 46			4 31	3 57
		Oxf. Term ends.	4 28	7 4!	18 . 1	15 34	0 21	5 25	3 59
į	12	Old May Day.	4 16	7 42	8 16	11 6	0 47	0 14	4 1
	13	Sport of Co.	4 15	7 4-	8 31	6 15	1 8	7 1	4 1
	4	Whit Sunday.	4 Y3	7 4	18 46	1 13	1 27	7 46	4 2
		Whit Monday.	4 12	7 47	19 0	3 S. 46	I 44	8 27	4 2
	16	Whit Tuesday.	4 12	7 45	19 14	8 26	2 0	9 9	4 2
j		Ember Week.	4 11	7 50	19 27	12 42	2 18	9 53	4 1
1	18	V 15 .	4 10	7 51	9 40	.6 34	2 39	10 37	3 59
1	19	Q. Charl. born.	4 8	7 53	19 52	19 40	3 3	11 24	3 57
J	20		4 6	7 5-	20 6	21 4	Drifes.	Morn.	3 54
4	A	Trinity Sunday.	4 5	7 5	0 18	23 12	9A.11	0 11	3 50
0	22	arming administra	4 3	7 57	0 30	23 26	9 59	1 1	3 46
_	23	- 1	4 2	7 58	20 4"	12 37	10 37	1 50	3 4!
1	24	Oxf. Term begins.	4 1		20 52	20 47	11 10	2 39	3 36
	25	Corpus Christi.	4 0	7 59	21 3	17 59	7 3	7 27	3 31
	26	Term begins.		8		14 21	11 59	-	
1	27	V n. Bede.	3 57 3 58	8 2	1 24	10	Morn.		3 25
-	A	I S. aft. Trinity.		8 3	21 33	5 6	0 181	4 59	3 19
2	29	K. C. II. Reft.		8 0		ON. 9	0 36	5 45	3 12
7	30	ALO DO CAL ATUILL	3 56	\$ 5	21 43 21 52	5 35	0 1	7 10	3 5
	31		3 54	8 4	22 0	10 (4	1 16	8 11	37
Į		-			-		-		
	D		Helioc.	Heine.	Heiroe				Satura
K	. YS			Plac. 1	Plac. 3	Plac 🖯	Plac. Q	Plac. 9	lete.
	1	7 5 14 49		171142	7811	1111119	20= 3	21.25	oM37
1	7	7 25 15 9	19 8	18 10	9 51	17 7	, ,	217(25	0 1.5
	13	7 43 15 27 8 1 15 45	19 22	18 38	12 31	2 54		217 47	11 A 51
	9		19 35	19 5		28 40	18 54	27813	11 29
		8 16 16 6	19 49	19 33	17 48	4.1 25	28 28	49554	11 8

Sitting

Tidy's (or Red fines of time up the 8th

	of.	•		ı		M	Tay	1	170	59.				1			
LD as			Daylig ends.	Du	rat	N	ode		· F	Lai	t 1/	Lat			rth.		
ys!	begin	6	9 57	retromen	-	26	15	0	6	-	15	-	30		40	4	ith.
17	I	44 3	0 19	2	37 48	25	56	0	6	I	25	I	29	4	27	I	38
13		21	1 20		32	25	38	0	5		14		28 26		17	1 ~	43 N.20
2	NoN		JoNie.				, )	0	4	1	13	34	25		15		17
Days	d.	m.	S.	)	×	)	Lat.	in	9	T,	R	3	50	8	П	ğ	r
1 -1	11	18	34	9	12	41	J 58	13	15	-	10	6	53	19	6	22	25
2	12	16	39	23	5	5	9	13.	20	19	. 2	7 8	28	19	29	24	10
3		14	42.	27 V	30	5	35	13	30	18	55 48	8	46	19	51	25	57
1 5	15	10	44	70	1 3	3	48	13	3	8	40	9	16	20	30	29	36
6 A.		8	41	7 I	37	2	44	13	4	18	32	9	52	20	46	1)	328
8		4	37 32	22	49	0	9	13	52	.8	17	11	4	21	14	3 5	18
19		2.	25	790	48	1S.	24	13	57	18.	9	11	40	21	32	7 9	16
13		58	- 8	55)	-	3	27	4	ç	7	54	12	52	2 E	37	7	17
12		55	57	19	5	4	16	14	14	17	46	13	28	21	40	33	20
13 A.		53	44	217	-6	4.	50	14	26	17	39	14	4c	21 2	42	17	31
15	24	49	15	27	25	5	13	14	3	17	23	15	17	2 1	37	19	39
16	1 - 2	46	58 40	21	43	5	38	14	35	7	10	16	53	21	23	23	48
18	27	42	21	3111	48	4	2	14	50	17	1	17	5	2 I	12	25	9
19	28	40	38	27	30	3 2	16	14	56	6	54	8	41	20	58	28. OT	20   I31
A.	П	35	15	-	17	1	21	15	C	16	40	18	54	20	25	2	42
22	1	32	50			o oN	16	15	21	6	32	19	30	20	6	4	54
24	3	30	57	2 V j	56	1	53	15	20	16	18	20	7	19	18	7	17
25	4	25	29	27	3	2	52	15	34	.6	11	11	19	18	50	11	26
26	5	23	10	22	24	3	45	15	4	16	57	21	56 32	17	51	13	33
A.	7	17	58	47	56,	4	59	15	54	15	51	23	9	17	19	17	44
30	8	15	52	18 2 V	16	5	15	16	7	15	44	23	45	16	45	9	47
31	10	10	18	16	12	4	56	16	1	15	31	24	58	15	34	23	47
Days	jupite r les.	_	Mars fets.	Ven		Mer		Dec.	h.	Dec		Dec.	0	Dec. Nor		Dec	
	7 A		DM23	IIA		4M	14	22	43	16	21	24	-	27	41	6	37
7	iets	1	0 14	11	46	4	6	12	40	16	8	24	33	27	38	11	7
13	4 M2		1A 51	10	12	fers		22	34	15	57	24		27 26	2-	15	48
25		1 1	33	9	30	8A	481	12	30		33	23.	11	2;	15	23	28

New Moon the 4th Doy, 27 Minutes past 3 in the Morning.
First Quarter the 11th Diy, 57 Minutes after 4 in the Morning.
Full Moon the 19th Day, 7 Minutes after 8 in the Morning.
L. st Quarter the 27th Day, 13 Minutes before 1 in the Morning.

	-										-			-				1
	M	Sundays.	& cth	er	Su		Su	3	Dec	.01	Dec.	· [	iVI	noc		on		
	D	remarka	ble Day	754	rife	9.	fet	s.	Nor	th.	Nor	th.	TI	les.	91,0	th.	afis	un
	-		11	-1			8	-	2.2	8	Tr	4.2	7.1	M39		-	-	
200	I	Nicomed	ie Ni.	1	3	53		7 5			15	42		VI 39	91		2	41
	2				3	52	8	,	12		19	41	2	-	10	2	2	31
	3		100		3	300.	3	. 5	22	24	22	22	2	46	12	4	2	21
	a	2 S. af	Trinit	y i	K.C	300.	III.	bo.	12	33	23	28		fets.	OA	. 9	2	I
	5	Biniface	B. & N	1.	3	50	8	IC	12	37	22	48	9	1.36	1	12	2	2
1	-	-		-	-	-	0	-	20	-	20	-	10	20		1	-	
	6			-	3	49	8	1,1	22	43	20	31	10	10	2	13	1	52
	7			- 1	3	48	8	12	22	49	16	59	10	46	13	11	1	41
	8			1	3	48	8	12	12	155	12	37	II	9	4	4	1	29
10	9		4"	-	3	47	8	13	23	0	7	41	11	29	4	51	Y	18
4		Prin. Am	elia Bo	210	3	47	8	13	23	4	2	33	II	47	5	37	1	6
		-				_	1		-		-0	-	1	-	-		-	
	A.	3 S. aft.	Trinit	y	St. 1	Barn			23	9		. 31		rn.	6	22		55
	12			1	3	46		14	23	12	7	21	0	4	7	4	0	43
	13				3	46	8	14	23	16	II	48	0	20	7	48	0	30
		Term E	nds		3	45	8	15	23	19	15	44	0	40	8	32	0	18
	15				3	45	8	15		21	-	0	I	· 3	9	18	0	5
Send out			-	_	-	-	_			-							-	-
Denie our	16	1			3	44	8	16	, ,	24	21	28	I	31	10	5	Op	ct.7
	17	St. Alba	n M.		3	44	8	16	23	25	22	- 58	2	3	10	53	0	20
	10	45. aft.	Trini	tw	3	43	8	17	13	27	23	29	2	45	1 T	42	0	32
	19			7	3	43	8	17		28	22	55	D:	ifes.	Mo	rn.	0	45
		Tr. Edw	7/ 337	0	3	43	8	17		28	21	13		1. 8	0	31		
				3.					-	-			-	-	-		_	57
	21	Longest	Day		3	43	8	17	23	28	18	45	9	37	I.	20	1	10
	22				3	43	8	17	43	2.8	15	12	9	59	2	7	1	23
SAN	23	12 7			3	43	8	17	23	27	II	3	10	20	2	53	1	36
///	24	St. John	Ranti:	9.	3	43	3	17	23	26	6	18	10	38	3	37	1	49
2	A	5 S. aft.			3	44	8	16		25	I	32	10	57	4		2	2
		5 or alte	A A IIII	3	1	44		10	- 3		_	-		7/	_	23	4	
	25				3	44	8	16	23	22	4N	1. 6	H	14	-5	9	2	-15
	27	1,954			3	44	8	16	23	20	9	17	II	34	5	57	2	27
	28				3	45	8	15	23	17	14	-9	Mo	rn.	5	48	2	39
	29	St. Peter	e & Par	al I	3	45	8		23	14	18	20	0	1	7	40	-	51
> Meets.					3	46	8		2 2		21	30	0	35	8	38		- 2
Miles.	3C				3	40	0	*4	63	**	1	3~	101	30		30	3	3
	_					-						-					_	
	Days	Day	Leng	· b	Hel	ioc.	Heli	oc.	Hel	100.	Hel	inc.	He	loc.	Hel	10c.	Satt	ırn
	N. V	acrease	of Da												Plac	0.0	fe:	s.
		8 30	-	-		-	-		-	-	-	40.0	-					
	1	0			200		2011				111			136	158		IOH	.42
	7	8 40			20		20	34	23	31	16	52	19	7	1411		10.	20
	13	8 44	16 2	28	20	31	21		26	8	22	36	28	37	85	24	9	57
	10	8 50	16 :	4	20	45	21	29	28	46	28	19	84	96	28	45	9	351
	2	tecra. 2		2	20	58		57	111	72:	4V	9 2	17	35	1611			13
	-			-				31		-				,,,				_31

T						6		
1	11	n	6	1	67	O	a	
9	•		~			-	7	ı

						-					1				
0	Daving.	Dayl g.	Durat.	No	ode	Lat	· b	Lar.	. 1	Lat	. 3	Lat	. 9	Lat	. Ø
20	bagins.	enda.	Tw.lig.	) ir	1	Sou	th.	Nor	h.	No	th.	No	rth.	Non	rth.
S	OCK 11101	(110.6		-	-	-		-		-		-		-	
1				24	40	0	3	X	12	I	23	0	44	I	58
7	All	All	All	24	22	0	3	E	10	I	21	05	.40	2	4
13	Day	Diy	Diy	24	4	0	2	I	9	I.	19	I	59	I	45
119	Light	Light.	Light.	24	46	0	2	1	98	1	18	3	2	I	1
200	To Sur	Digire.		23	28	0.	3	I	6	T	16	3	48	05	
1 -	1		-	- 5	-			-		1	3 (/		man home	1-0-	. 5
Days	30	DIT	1 50	DI	at	T-	9	14	m	2	~	2	П	125	T
ay	d. n	n. 1.	D 8	1) 1	aal	b	50	R	3	S	05	I	3	13	П
-	-	-		- 2.7		-6				-	-	-		-	*******
1	II	7 43	0 48		.14	16	2!	15	24	25	34	14	58	25	44
2	12	5 7	15 44	3	17	16	22	15	18	26	10	14	21	27	39
2		2 20	OII 4	2	L.	16	3	15	12	26	47	13	4:	29	31
A			16 8	0	40	16	42	15	7	27	2:	13	- 1		021
1 00			19615		.40	:6	49		1	28	(	12	28	1	8
1 3	14 5	7 12		-	-	NAMES OF TAXABLE	-	15			-		20	3	
6	15 .	4 33	16 7	2	C	16	56	14	5	28	36	I	51	4	53
7	16 5		0036	3	9	17	3	14	40	29.	1-	12	14	6	34
1 4		0.0	14 33	4	4	17	10	14	44	29	45	0	38	8	14
		2.		4	46	17	18				28	0		1	
9	18 4				10		2.	14	35	1	_		4	9	51
10	19 4	3 48	11111551	5	1	17	4.	14	3:	A	3	9	3	1	25
1 A.	20 4	1 5	24 10	5	15	17	32	14	29	1	40	8	59	12	56
12	21 3		6:237	5	XC.	17	40	14	24	2	17	8	20	14	25
1				4	49	17		14	10	2		8	-2		
13		5 37			الفالنا		47		-		5:			15	51
14	23 3	2 52	omso	4-	1	17	54	14	1	3	30	7	3	7	14
15	21 3	0 7	12 44	3.	30	18	2.	14.	I)	4	7	7	-9	18	34
16	25 2	7 21	24 33	2	37	18	9	14	(	4	43	6	4-	19	51
1	1 2		6 T 27	ī	37	13	16	14			2	6		21	3.
17					01	18			58	5		1 .	27	4	
A.	27 2		13 10	0			24	13		5	57	6	9	1.2	38
19	28 1	9 0	ONE ?	ON		18	31	13	54	6	3:	5	53	23	2.7
20	29 1	6 13	12 3	1	38	18	38	13	5	7.	C	5	40	24	33
-			24 13	2	40	18	46	13	4	7	1-	-		25	-
21	36 I					18				8	4:4	5	30		35
22	II		6 32	3	35		53	13	44		24	5	22	26	35
23	2	7 48	19 4	4	20	19	,	13	41	9	(	. 5	16	2.7	32
24	3	5 0	17630	4	54	19	- 8	13	38	9	3	5	12	28	25
A		2 12	14 52	5	3 :	19	16	13	1.	10	1.3	5	10	20	13
-	TATE	. 20	28 0 12		16	19	24	13	32	10	-		-	20	_
26	4 5	9 23		5			_				51		.11	29	59
27	5 5		1175!	5	2	19	31	13	30	6 E	28	5	14	00	
28	6 5		25 52	4		19	39	13	28	12	-	-5	20	I.	20
29	7 5	0 56	10812	3	40		46	13	26	12	42	5	28	1	55
30	8 4	8 7	24 50	3	36	19	54	13	24	13	10	5	38	2	25
3	-				-					11	- 1	1	27		,
-	Townis.	14	XZ	Mer		Dec.	1-	Dec.	W	D		-			
2	Jupiter		Venus			Dec.	1.			Dec	ó	Dec		Dec.	
Days	iets.	fets.	fets	let		Nort	u.	Sout	n.	Nor	th.	N at	th	Nor	th.
3	3M 0	11A.22	8A.30	QA.	.36	22	26	15	20	22	20	23	21	25	22
	2 35	11 8	rifes.	9	57		21	15	12	21	40	21	_		
7			3M 8			22	16						31	25	23
13	2 9	10 53		10				15		20	50		44	24	15
19	I 43	10 37	4 43	9	59		10		57	19	56		21	22	27
1 25	1 17	10 21	2 21	9	42.	22	5	14	541	18	56	17	28	20	16
-						B 2	-		-	-					1

New Moon the 3d Day, 33 Minutes after 3 in the Atternoon.
First Quarter the 10th Day, 23 Minutes past 6 in the Atternoon.
Full Moon the 18th Day, 15 Minutes past 10 at Night.
Last Quarter the 26th Day, 45 M nu evalter 6 in the Morning.

	-						. ,							1411 /1	1112.0		
		Sundays and remarkable		Su rife		Sur		Dec.		Dec.				Mo		Cls	
			Dayou	2	40	8	14	-		Nort	-	rife		£	-	b41.	10
	A	6 Sun. a't.	Trin.			.M:		23	7	23	14	2	117	9 M	39	3	1-
	3	Camb.Com	-	3	47	8	13	22	57	2.1	44	)	le s	11	46	3	3-
monm		Old M'df.		3	48	8	12	22	52 46	18	41		138		.49	3	47
· · · · · · · · · · · · · · · · · · ·	6	014 112 411		3	49	8	-	22	40		38	9	-	1	45	3	59
-	7	Camb. T.	ends.			áB:		22	34	9	27	9	47	3	39	4	9
- 1	8	7 Sun. aft.	Trise	3	5c	3		22	27	os	.48	10	5	4	12	4	20
		Oxford Act		3	51	8	9	22	12	5	50	10	21	4	50	4	38
Sels "-	II	-		3	5	8	7	22	- 2	11	39	11	41	5 6	39	4	46
1	12	1 / 3		3	54	8	6	21	56	18	39	FI	27	7	24	4	54
	13	0		3	5	8	5	2.1	48	20	49	11	59	7	5	5	3
Asones		Oxf. Term	ends.	Swi	5() th.I	3. W	4 n.	21	39	23	36	Mor	70. 38	8	42	5	15
Africes	A	Sun, aft.	Trin.	3	521	8	2	21	19	23	10	-	26	9	32	5	20
ottling	17			3	59	8	1	2 I	ç	21	50	2	21	11	23	5	28
	18			4	0	8	0	20	59	19	29		ile	11	59	5	39
		Margaret	7.&M.	4		7	59	20	48 37	12	14	8 A	22	Mor	n. 46	5	43
	21			4	4	7	56	20	21	7	29	8	42			5	47
	1	Denmai Sun ale				Ma		20	13	2	25	9	0	2	34	5	59
	24	oun are	A 11340	4	7	7	53	20	48	2N	.51	9	19	3	4	5	54
	25	t. James.		4	10	7		19	35		<b>2</b> 59	9	38	3	54	5	56
3	25	St. Anne.	Mother	4	31	7	-	119	22	-	13		32	-	42	5	57
	27	to the B.V.	Mary.	4	13	7	47	19	8	20	35		10	5	33	5	57 57
	20		119	4	14	. 7	46		55	22	44	_	59	7	25	5	57
	A	o Sun.aft.	Trin.	Dog	day.	beg		13	26	23	29	Mor	2	8	25	5	56
	31			4	18	7		18	11	20	4	2	17	10	30	5	54
	Days	Day decreaf.	Length	Hel	IU C	Heli	oc.	He	lioc.					Hel		Satu	-
	1		of Day.	216	- 10	22]]	14	-		Pla.		Pla.	-	Pla.	5	fet.	
	7		6 22	21	25	12	53 53		<b>12</b> 0 37	1 2 4		27V		37		8 A	
	13	1 21	16 10	21	39	3	21	9	3/	15 21	28 12		~33 2	20 7V	12	8 rife	28
	19		5 58	21	52		49		53	26	5:	25	32	25	1	3M	
,		34 1 1	401		- 1	24	17	14	31	2 22	× 39	5	€ 2	152	4		18

	η.			Jul	y 170	59.			1
Days	Dayl g.	Daylig ends.	Dirat. Twilig.	Node ) in I	Lat. h	Lat. 1.	Lat. & North.	Lat. 9 South	Lat. 9 South.
7	All	All Day	All Day	23 10 22 53	0 I	1 3	1 14	4 37 4 32	1 27 2 56
13	Light.	L ght.	Light.	22 35 22 17 21 59	0 0 0 0 N 1	1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 10 1 8	4 36 4 32 4 20	4 15 4 53 4 36
Days	(0)	90 n. j.	) II	) Lat.	h 95	T <sub>R</sub> m	2 2	5 П	\$ U
A A	9 4	5 17	9 40	I N20 oS. 2	20 2	13 22	13 56 14 33	5 51 6 5	2 51
3 4	11 3	9 38	93635	1 24 2 39	20 17 20 25	13 19	15 10	6 39	3 29
6	14 3	1 11	80 34 23 3	3 43 4 30	20 <u>33</u>	13 17	17 2	7 20	3 54
7 8 A	16 2 17 2	3 23 5 35 2 47	6页42 19 57 2 = 18	5 14 5 14	20 49 20 57 21 4	13 16 13 15 13 15	17 39 18 16 18 53	7 43 8 7 8 33	3 R 52 3 46 3 35
Io II		0 49	27 28	4 53	21 12	13 15 13 15	19 30	9 1	3 19
12	20 I	4 24 1 37	911127 21 20	3 41 2 49 1 52	21 28	13D.16	20 45	10 25	2 35
14 15 A	23	8 51 6 6	37 7 14 56 26 49	0 49 0 N16	21 44 21 51 21 59	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	21 59 22 36 23 14	1 9	1 3
17		0 35	26 49 8V951 21 2	1 21 2 2 3	22 7 22 15	13. 19	23 51	12 20 12 57 13 36	0 24 292513 29 J
19 20	27 5	5 8 2 24	3 25 16 0	3 19 4 6	22 23	13 23	-	14 57	28 20
21 22 A	28 4 29 4 Ω 4	6 59	11 ¥57 25 14	4 43 5 .5 5 11	22 38 22 4t 22 54	13 27 13 29 13 32	26 21 26 58 27 36	15 38 16 20	26 58 26 18 25 39
24	2 3	i 38 8 59	8 V 44	5 1	23 1	13 34	27 36 28 13 28 51	17 48 18 34	25 3 24 32
20 27 28	3 3 4 3	3 41	6 823	3 48 2 49 1 40	23 27 23 24 23 32	13 39	29 28 of 6	19 20	24 5 23 43
20 2) A	5 3 6 2 7 2 8 2	8 30	4 11 47 19 14 3 25 47	0 23 0S.56	23 3° 23 4° 23 47	13 45 13 48 -3 51	0 43 1 21 1 58	20 55 21 43 22 32	23 26 23 13 23 4
31 D	Jupiter	3 21 Mars	Venus	Mercu.	23 5 Dec. 12	13 54 Dec. 21	Dec. 3	23 25 Der. X	2 3D. 9
1 ys = 1	1ets.	f:ts.	iles.	fets. 9A.17	North. 21 58	outh.	North.	N 11h.	North.
7 13	0 26 0 1 11A.33	9 48	1 44 1 29 1 17	8 43	21 5° 21 4° 21 38	4 51 14 53 14 56		17 10 .7 31 .8 3	15 25
	11 10	9 15	1 -	7 24	21 3		12 (6		6 4

B

New Moon the 1st Day, 33 Minutes past 11 at Night. First Quarter the 9th Day, 41 Minutes after 10 in the Morning. Full Moon the 17th Day, 58 Minutes past 10 in the Morning. Last Quarter the 24th Day, 13 Minutes after Moon. New Moon the 11st Day, 33 Minutes past 9 in the Morning.

MISundays	8- othe	Su		St			6	Di	-	34		- No. 1		CI	-1-
											on			Ck	
Dremarkal	ole Days	rife	s.	fet	s.	No	th.	Nor	th.	TI	les.	Sou	th	be	Sun
Lammat	Day.	4	20	7	40	17	56	16	22	31	VI 39	IIA	130	10	47
2		4	2.1	7	39	17	40	{ I	47	7	fets		.23	5	43
2		4	23	7	37	17	20	6	41		A49	ī	13	5	38
4		4	24	7	36	17-	8	I	22	8	77	2	2	5	33
7		4	2	7		16		28	_	.3	26	2			
5	-	-			34	10	54		53	-	2,0	20	47	5	27
Ajar Sun.	ft Tiin.	Trai	រទព់ខ្	ura	tion	16	36	8	45	8	44	3	33	5	21
7		4	28	7	31	16	19	13	10	9	6	4	16	5	12
8		4	30	7	29	16	2	16	56	9	30	5	2	5	6
0		4	31	7	28	TE	45	19	55	9	59	5	49	4	58
10 St. Laure	nce M.	4	33	7	26	15	27	22	100	10	35	ō	37	4	50
		-							-				-	-	-
Prs.Brun			35	7	24		9	23	9		2.0	7 8	27	4	41
12 Pr. Wale		Old			Day	14	51	23	14		rn.		18	4	32
A 12 Sun. a	eft. Trin.		38	7	21	14	30	22	17	0	13	,	9	4	22
14		4	40	-7	19	14	14	20	15	1	14	9	56	4	Iì
15 Affump.	B. V.M.	4	42	7	17	13	56	17	17	2	51	10	44	4	C
16 Pr. Fred	-	14	44	7	15	13	37	13	28	3	22	II	30	-	48
1011 16 1.160	· DOLLE	4	45	7	14	13	28	8		1 %	rifes			3	
18		1				12	58		55				16	3	36
		4	47	7				3	56		28	0	6	3	23
19	:	4	49	7		12	39		.19	7		I		3	10
A 13 Sun.	2.71	-	51	7	, 8	12	19	6	39	7	4.8	1	52	2	56
21 Pr.W. F.	ien, burn.	1 4	53	7	6	11	59	II	41	8	12	2	42	2	4.5
22	•	4	54	7	5	13	30	16	, 8	8	0	3	32	2	25
23		4	56	7	3	11	18	19	42	9	45	4	28	2	10
24 St. Barth	Samesz.	4	58	7	1	10	58	22	9	10	113	5	23	1	
	CACIAL VY		20	6	59	10-	37	23	12	IO		6	22	1	54
25		5						-3	12	10	57	-		1	38
26		5	2	6	5.7	10	16	22	25	Mie	rn.	7	23	£	22
A 14 Sun.	aft. Trin.	5	4	6:	55	9	551	05	51	0	6	. 8	23	T	5
28 St. Augu	iftine.	5	6	6.	5.3	9	34	17	40	1	23	9	21	0	47
30 Decol. S	t. J. Bapt.		8	6.	_ 51	9	12	13	_3 I	2	44	10	75	0	30
30		5	10	6	49	8.	551	8	40	4	4	11	8	0	32
31		1.5	12	6	47	8	20	3	29	3	fets		56		ft. 6
	Length	EJ.	-	T.T.	-	Hel		ALC: UNKNOWN	-4			-	-	-	
Day decreas.				He				Hel			lioc	He		Sati	
decreaf.	of Day.	1713.	b	Pla	c 71	Pla.	.0	Pla.	9	Pla	1. 9	Pla	· \$	rif	es.
I I 14	15. 20	220	521	241	1149	1711	P35	94	~2 I	16:	¥ 9	12)	€34	21	154
7 1 31	15 3		34		17	20	14	15	6	25	41	117		2	36
17 1 .51	14 43	22 -	48			22	53	20	52		V 13			2	18
19 2-17	14 21	23		26	13	25	33	26	38			227		I	
25 2 :35		23	34		41		13		(26	14	47		-		59
, = , [ 2 . 3.5	. 3 59	-3	34	200	Ch.A	~ 0	235	-71	20	24	22	299	0 0	1	41
**				1			-		-	-	-			-	-

Jut Geo. Peach's Bull to the lighter red Stirky. 8.

	T	-		15	É	lu	gu	ft	17	69							
D	Day.		ylg.	Dur		No		Lac.		Lat.		Lat	.3	Lat.	¥	Lac	
ys	h gin		ends.	Twi		) is	_	Nor		Nor		Nor	-	Sout	-	ou	-
7		23 I		2 2	J _	21	38	0	2	0 0	57	1	3	4	30	3	32
13	2		9 51	2		21	19	0	3	0	54	0		3.	1	0	2
1.19		29	9 31	2	25	20	43	0	2	0	52	0	59	2	45	IN	. 6
25	-	-	9 13	2	18	20	2	0	_	0	51	Ġ.	54	2	21	4	41
Dy	d.	m.	51 <sub>f</sub> .	D	$\Omega$	J. I	a3≜.	ħ	00	4	m	8	n	3	L	Ď	9
1	9	20	48	2	521	3 S	.17	24	3	13	58	3	14	24	14	23	1:
2	10	10	15	7	10	4	9	24	11	14	2	3-	. 52	25	- 4	23	29
3	11	15	43	14	11	4	4	24	18	4	6	4 5	30	25	57	23	50
4	13	13	44	28	47	5	6	-4	33	14	15	5	44	27	43	24	51
A	14	8	16	10:0	-	4	52	24	41	: 4	20	6	22	28	37	25	32
1 7		5	49	23	24	4	2	24	48	14	25	7	1	29	31	26	20
1	1	3	23		136	3	45	24	55	14	30	7	39	CO	21	27	14
19		58	36	17	35	2 2	57	25	10	14	35 41	8	55	2	17	29	20
71	-	56	11	117		I		25	17	14	46	9	33	3	14	os:	32
12	1	53	53	23	ı	oN		25	25	14	51	10	11	4	11	I	49
A		51	33	V.		I	t g	2.5	32	14	57	10	49	6	8	3	12
14		49	58	9	I	2	4	25	39	15	3	11	27	7	6	6	4C
16	-	44	43	10 00	7 (2	3		5	54	15	16	12	44	8	3	7	50
,	1 2	42	29	2	12	4	5:	6	1	15	22	13	22	9	2	9	31
17		40	17		(2)	4	55	26	9	15	28	14	0	10	1	11	16
IC		38	6	2	48	5	]	26	16	15	34	14	38	II	3	13	5
-	-	35	<del>56</del> <del>48</del>	-	15	4	50	1-	23	15	41	-	-		1 2	14	56
2:		33	40	19	316	4.	47	26	37	15	48	15	54 33	13.	3	18	49
2		29	36	17	16	2	51	26	44	6	2.	17	11	15.	4	20	30
2.		27	33		120	T	4:	26	51	16	10	17	49	16	5	22	36
2	والمستناة ال	25	51	15	27	3	32	26	. 8	16	17	18	28	17	_7	24	34
2	3	23	31	29	015	oS I	56	27	5	16	25 33	19	45	18	9	26	32
2	8 5	19		27	213	3	1	27	18	16	4.1		23	20	14	or	
2	9 6	17	41	118	257	3	54	37	25	16	48	21	2		17	2	27
31		13		2:	m	4	33		31	16		2 I 2 2	40		24	4	24
3		-	Mars	on.	1 us	4	55 rcu.	Dec	38	17	-4 -2	Dec	19	Dec.		-	2C
Dayo	, upi fets		fere.		es.		es.		th.	D o			rth.	Noil		Dec	th.
3	IOA	44	8A.3	101	M 58	31	VIIC	21	22	15	IO	31	19	19	21	13	2:
	7 10	28	8 20	0	55	2	52	21	15	15	20	9	54		50		2(
	3 9	59	7 4		5:	3	5€		7	15	30	6	26 56		8	19	27
2		18	7 3		2.	1 4		20	52	15	43			20	14		-6
-		-				-						-	-	-	-		

### September hath XXX Day

White.

The LUNATIONS.

First Quarter the 8th Day, 13 Minutes past 5 in the Morning.
Full Mcon the 15th Day, 39 Minutes after 10 at Night.
Last Quarter the 22d Day, 17 Minutes past 6 at Night.
New Moon the 29th Day, 18 Minutes after 10 at Night.

N		s & other		un	S	un				c. ):	1 N	nool	(_VI	oon	CI	ock
D	remark	ableDays	ri	fes.	10	ets.	iNo	rth.	So	1th.	fe	es.	Sou	th.	at.	Sun.
1		bbot & C		1	6	45	8	7		46	6.	A.36	OR	.44	0	24
1 3		burnt I		D. S.	6	4.4	7	4.5	6	4.9	6	5€		30		43
10	15 Sun.	aft.Trin	5	17	6	42		23		25		16	2	16		3
1 4	4		5	19	6	40		1	13	30		40		3	T	22
1		-	5	2	6	38		39	-	45	1	8	3	49	1	42
16	-		5	23	6	36	6	16		10	1 -	40	4	37	2	1
1 3			5	2 :	6	34	5	54	22	40	9	23		27	2	21
	111111111111111111111111111111111111111	.V.Mary	, ,	27	6	32	5	31	23	6	10	12		16	2	41
A	Th Sun	aft. Trin	5 5	29	6	30 28	5	8	20	30	M	rn.		5	3	3
-		alt. 2 11/1	_	31			-	-		-			7	55	3	21
II	1		5	33	6	26	4	23	18	19	0	12	1	42		41
12			5	35	6	24	4.	37	15	35	1 2	2.1	9	30	4	2
14		rofs Day	5	37	6	20	3	14	5	46	3	34	II	17	4	23
115		1015 Day	5	39 41	6	18	2	-51	0	31		iles.	IX	54	4 5	45
16			-	-	6	16	2		-	1.52		A. 2	-			
A		aft.Trin	1 5	43t	tB.		2	27	10	4	6	25	Mo		5	48
18			5	471	6	12	1	41	14	48	6	52	I	43	5	8
119			5	49	6	10	1	17	18	41	7	26	2	30	6	29
20	Ember \	Week.	15	51	6	8	0		25	26	8	9	3	27	6	49
21	St. Mat	thew.	15	53	6	6	0	31	22	49	9	-	4	28	7	10
- 22	N. Georg	ge III. Cr	. 5	55	6	4	0		22	44	10	3		27	7	31
23		1	5	57	6	2	05		21	12	IT	22	5	26	7	51
A		aft.Trin	5	59	6	0	0	-	18		Mo.		7	24	8	12
25			-	1	5	58	1	3	14	3	0	39	8	17	8	32
2.0	St. Cypi	rian. M.	6	3	5	56	1	27	10	4	1	57	9	9	8	53
27			6	5	5	54	I	501	5	6	3	15	9	58	9	13
28	Şt. Micl	hee.T	Prs.	Chai	5	521	at.l	12	0.5	. 2	4	31		46	9	33
	St. Tero		6	II	5	48		0	5	48		ets.	OA.	32	9	52
30	St. Jeroi	nie.		11	5	40	3	0	9	40	34		Un.	10	10	11
1=		Length	Hali	00 1	Hali	1	Heli	00	Hali	-	Hel	luc	Heli	-	Satu	-
Days	Day decreas.	of Day.									Plac		Plac.		rife	
-			-				_	-	-	$\simeq$					-	120
1 7	3 3	13 33			711	42	4	3	9)		5C	34	5 M		I	120
7	3 25		23		8	10	6		20	_	24	0	22	22	0	42
10	4 13			10 2		38	9		26	44			iim		0	23
25	4 37	11 57		24 2		7.1		131	27	ا الطاعات	14		28	15	0	_5]
l			-	-			-		-	1	-		-			-

~· 2.

n 2

	H.	1/4			Se	pt	em	ber	. !	76	9.						
Doys	Diyling teg n		yl'g	Dur Twi		N )	ode	Lat. Nor	th			Lat.		Lat.		Lat. Nor	
1	3	7 8	53	2	II	20	3	0	5	0	49	.0	51	1	48	1	45
1.7		7 8	36	2 2	6	19	26	0	6	0	48	0	49	I	53	I	51
13		7 8	8	2	à	19	7	0	7	0	48	0	44	0	26	0	21
25	4	5 7	55	2	С	13	4.8	0	7	0	4	0	4	0	3	08	31
25 10 y	<u>ن</u> ه.	m.	W.	2)	m	)	Lat.	5	9	1	m	3	M	2	99	ğ	呗
1	9	12	5	23	18	5	5. 1	27	41	17	12	22	58	2.4	28	8	16
2	10	10	16	6≝		4	50	27	50	17	2.1	23	36	25	32	10	71
A	31	8	29	18	49	4	25 48	27	57	17	<b>2</b> 9	24	I	26	37 42	12	58
4 5	12	6	44	13	27	3	40	28	3	17	47	24	54 32	18	47	15	50
1-0	14	3	19	25	26	2	6	28	16	17	56	26	711	29	52	17	41
7	15	3	40	71		1	7	28	22	13	5	26	50	08	257	19	31
8	16	0	28	19	3	0	5	28	28	18	14	27	29	2	3	21	19
13	16	58		I2	3634	0	N.58 8	28	34	18	23	18	8	3	9	23	6
1-A	17.	36	54		52	-		28	40		32	-	46	4	14	-	53
11	18	55	22	25	5 <b>≈3</b> 4	3	54. 44.	28	46	18	42 51	19	2 4	5	27	28	38
13	20	53	52	20	23	4	23	28	58	19	2,	0	≟ 4 43	7	34	05	3 5
14	21	50	58		€34	4	49	29	4	19	11	I	, 22	8	4.1	3	48
15	22	49	34	17	8	5	0	29	9	19	21	2	Y	9	48	3	29
16	23	48	11	11		4	54	29	J .	19	31	2	7		55	5	10
A	24	46	51	15	7 22	4		29	21	19	41	3	20	12	10	1	49
118	25	45	33	13)	342	3	49 53	29	26 32	19	51	3 4	<b>59</b>	13	18		27
20	27	44	3	27	59	1	46	29	37	20	12	5	18	15	26		40
21	28	41	51	12	114	0	33	29	42	20	22	-	- 57	-	34	13	15
22	_	40	41	25	2	0	5.41	29	47	20	32	5	36	17		14	49
23	1	30	33		521	3	53	29	52	20	43	7	16	18	51		22
A	3	38	27	85	18	2	58	29	57	20	53	7 8	55		. 0	17	54
25	2	37	2.7	1		3	51	-		-	4		. 34	22	18	1-	
26	3	30	2.1	21	41 TI:	4	3 ¹ 54	0	7	21	1 - 2f	9	53	23	27	20 2 I	56 26
28	5	34	23	18	29	5	2	0	16	21	37	10	32		37	23	55
29	6	33	27		23.	4	53	0	2 [	2,1	48	11		25	46	25	23
30	7	32	34	14	2.	4	30	0	25	22	0	IE	51	26	56	26	50
-	Loois	05 A	lars	V	enus	- N	ercu.	10	· b	Des	1	De	. 1	Dec	0	Dec	0
Days	Jupit fets.		ets.		les.		ses.	No:	rth.	Sou		No	th.	No	rth.	Nor	
1	8 A	55 7	Ais	1:	MIC	5	M10	20	44	16	13	3	35	19	10	10	b
7	8	30 6	59	1	20		fets.	20	38	16	29	2	1	18	41	5	26
1		15 6	44	I	33	6	A44	20	30		4:	0		17	35	0	45
19		56 6	28	2	46		33	20	24	17	20	2	16	14	28	35	55
123		, ,	- cj.		-			-		-/		-	40	. 4	-0	. /	20

First Quarter the 7th Day, 49 Minutes after Midnight.
Full Moon the 15th Day, 30 Minutes after 9 in the Morning.
Last Quarter the 21d Day. 55 Minutes past 1 in the Morning.
New Moon the 29 Day. 6 Minutes after 2 in the Afternoon.

80	_	Man	MOOR	9	-									1 11("	****		
ı	Ni	Sundays	& othe	1 3	un	1 8	in	Du	. (0)	1100	. )	M	avo	IN	pon	Cit	KK
1	D.		able Days		les.	1	ets.	Scu		Sou	th.	1 fe	ets	Sei	ith.	af.	Sun.
1	-			-			32.		-	-		-		-	A. :	10	+
	A	19 Sun.	aft Trine	6	migi			3	23	14		54	1 4	1	~		30
	2				14		4:		47	17	27		19		53	0	49
4	:3	0		6	16	1 3	43	4	10	20	14	6	50		40	7.1	8
1	4			6	18	1 0	41	4	33	22	1	7	2.9	3	2 1		25
1	5	3		1.5	20	1 5	39	4	56	2.2	49	8	14	4		11	43
	6	Faith V	and M	. 6	22	15	37	5	20	22	34	9	7	5	6	164	0
1	7			6	20	5	35	5	43	21	19	10	6		5-	12	10
1		00 Eng.	aft. Trin	6	26	5	33	6	6	19	7	II	13	5	4	12	33
ł	9	ZO SUM	FIC. TIM	6	28	5	31	6	28	16	6	Mo		7	30	12	49
ì	10	0-600	W. W. L.	1018		ch.	D21	6	-5-	12	0	0	2:	7 8	17	13	
1	-	Ozf.&C	-VEH 1 . 72			-	<del></del>	-	2.	-					-	-	5
	II			6	33		27	7	14	7	38	I	35	9	. 3	13	20
I	12			6	34	5	25	7	37	2	36	2	50	9	51	13	35
1	13	Tr. Edw	7. Conf.	16	36	5	2:	7 8	59		1.42	4	6	10	40	13	49
ł	14			6	38	, 5	2)		21	8	1	5	24	LI	30	14	2
ı	Å	27 Sun.:	aft. Trip	, 6	40	5	10	8	44	13	0	)	rifes	M	orn.	14	15
Ш	16			0	42	1 5	17	9	6	17	20	5	32	0	25	14	28
1	17	Etheldre	ed.	1 5	44	5	1.0	9	28	ZO	31	6	13	I	24	14	40
I	18	St. Luk		6	40	5	15	9	50	22	20	7	4	2	24	14	51
	19	016 2502	C4.	6	47	5	12	10	11	22	41	8	7	3	25	15	2
	20	-		16	49	5	Ic	10	33	21	28	9	20	4	28	15	12
N	-			6	-	-	8		-	18	4.0	10			-	-	
1	21		- P. Fr		51	5	6	10	54		45	11	37	5	27	15	21
ı	A	22 Sun.	aft. Trin	6	53	5		11	16	15	58	Mo	54		23	15	30
	23	200		1	55	5	4		37	6	11	1	1)	7	2	15	38
	24	V O - T	II. Inauz.	1000	57 Pin	5	2	· I	58 18	1	11	2	2:	8		15	0.5
٠,	25	_	-	Cin	ein	.5	_ C	2		_			-	-	49	15	51
-	26	K. Geo. I	11. Procl.	17	- 1;	4	58	12	39	38	.47	3	38	9	35	15	56
	27			7.	3	4	56	. 2	59	8	30	4	49	٠.ن	19	16	1
1	28		n & Jude.		5	4	54	13	19	12	49	6	C	i J	4	16	5
1	1	23 Sun.	aft. Trin.		7	4	52	13	39	16	28	Die		. I	48	16	8
	30			7	9	4.	5C	13	59	19	24		.55	OA	- 1	16	11
	31		-	7	II	4	48	14	19	21	27	5	31	1	27	16	13
1	Days	Day	Length	Hel		Hel	ICC	Heli		Hel		Hel		He	10C.	Sati	III
ľ	YS	decreas.	of Day.	Plac	. 5	Pla	.41	Plac	.3	Plac	0	Plac	.8	la	0.5	rif	-8.
1	1	4 59	11 35	210	537	2911	135	14=	-58	87	32	23 I	TAS	14	47	116	112
1	7	5 23	11. 11	24	51	01		17	45	14	27	39			726	II	23
1	13	5 47	10 47	25	4	0	31	20	33	20	24	13	1.	18	57	11	3
	19	. 9	10 25	25	37	0		23		26	22	22	52		211	10	42
	25	6 31		25	311	1	27	46	13	27			143			10	20
-	7	-	•	-		-				-						_	
	3						100										

9e.1-

# October 1769.

				Ninda	II at	h	Lat.	2.1	Lat.	£.	1.21.	- 1	Lac.	8
		aylige	Durat Twilig	Node n 7	Nor		Ner	th.	Nor		Nor		South	
ys!	segins.	curs.	-	- manufacture -	Ö	8	0		0	38	0	22	1	16
1 1		7 42	¥ 5:	18 29	0	ç	0	44	0	35	0	43	ï	56
7		7 29	1 58 I 57		0	9	0	43	0	32	I	13	2	31
13		7 17	- 51	1 - 00	0	10	0	42	0	20	-[	16	2	55
25	4 5	7 5 > 54	1 5º	7 12	0	13	0	41	0	26	1	28	2	59
1 4	-					_	30	41	20	-	-	-	1	
l as	<b>d.</b> m.	5.	) :	D Lat.	10	$ \mathcal{D} $	九	n	6	Marie Person	\$	23	Š	=
5	-	-	26 :6	30 5.	0	30	22	11	12	31	28	6	28	16
A.		42 52	gM t	35 5.	0	34	12	2	13	11	29	16	29	41
2	9 30	5~	21 2	2 13	0	38	22	3+	13	5.	OH	226	in	
- 30	11 20	13	3711	1 12	0	4 5	2.2		14	30	1	36	2	30
13	12 28	35	15 4	0 11	0	47	22	571	10	10	2	46	3	53
6	¥3 27	53	5. 51	ON. 2	0	51	23	8	15	50	3	50	5	14
7:	14 27	13	81740		0	55	23	20	16	30	5	7	6	34
A	15 26	35	0 39		0	59	23	32	17	10	6	18	7	53
9	10 26	0	3,5		1	2	23		17	50	7	29	9	10
10	17 25	27	15 23	4 20	I,	_6	-	5	18	30	-	41	10	25
11	18 24	56	28 1:	4 49	I	10	24	7	19	10	9	52	11	39"
12	19 24		11343		I	13	24	19	19	50	II	3	12	52
13.	20 24		25 1		1	17	24	3 1	20	10	12	25	14	4
14	21 23		982		I	20	24	43	21	40	14	37	16	15
A	22 23	13	23 5	-	1						-			-
16	23. 22	**	1883		I	26	25	20	22	31	15	48	18	30
17	21 22	3 '	23 20			32	25	32	23	51	17	12	19	33
18	25 22	,	8 1 3	0 46 0 0 34	I	3.5	25		24	32	9	24	20	34
19	27 21	,	600	3 OS 34	T	37	25	57	25	12	30	36	21	2.7
20			2	-,			-	10	25	52	21	49	22	19
21	29 21	37	21 3	2 58		40	25	23	26	3.	23	49	23	19
A	29 21	,	4575			44	25	3.	27	1	:4	13	23	54
23	1 21		118 3		1 -	47	26	48	27	5.	1.5	26	24	36
25	2 31			5 5		49	1:7	- 1	28	3	25	38	25	12
26	3 21		7 5			ر ر	27	14	29	32	27	50	25	41
27	4 2		10mil4			53	27	27	49	5			26	4
28			23 1			55	27	39	on	13t	CH	3	26	20
A.	5 2 6 2		51213	0 3 26	1	57	27	32	1	1:	I	28	26	28
30	7 21	30	17 3	3 2 2		58		. 6	I	5	2	41	26	2.0
31		38	29 3	6 I 2		0	28	18	2	3	3	54		221
D	Jugiter	Mars	Vanus				Lec		Dec		Jec		Du	
ys	fets.	lets-	r fes.	fets.	No	rch.	Sou	th.	Sou	th.	You	th	Son	th
1	7A.17	5A.58	-M2		120	13	17	39	4	2 2	12	30	12	3
7	6 58	5 43		/	2/20	8		51	5	.58	0	19	15	34
13		rifes.	2 5	4 5. 5		3		14	7	32		55	18	30
19	6 20	6M 35	3 1	-/ -/		. 0		3	9	4		22		44
25	6 1	6 36	3 3	0 5 2	119	58	10	52	1:0	34	2	41	-:2	0

## November hath XXX Days.

White.

The LUNATIONS.

First Quarter the 6th Day, 28 Minutes past 7 at Night.
Full Moon the 13th Day, 10 Minutes past 8 at Night.
Last Quarter the 28th Day, 48 Minutes past 11 in the Forenoon.
New Moon the 28th Day, 30 Minutes after 8 in the Morning.

	New Moon Care	2011 1	14, 30 1	viinutes	atter o	m the r	gorning.	
M	Sundays & other	Sun	Sun	1D c. (6)	Dec. Di	Moon	Man l	Clock
D.	emarkable Days.	rifes.	fets	Sou h.	South.	fts.	South.	aft. Su.
-	The same of the sa				-			
1 ,	All Saints.	7 10	4 47	14 30	22 32	6A.13	24.16	16 14
2	Pr. Edward born.	All Sou	15.	14 57	22 35	7 4	3 4	12 14
1 3		7 16	4 43	15 16	21 37	.8 2	3 5	6 13
14		7 18	4 41	15 34	19 43	9 4	4 40	16 11
A.	24 S. aft. Trin.	Papifts (	Confpir.	15 53	16 55	10 11	5 26	16 9
6	Term begins.	7 2.	4 38	16 II	13 2,	11 20	6 1	10 7
	D. of Cumb. bo.	7 23	4 36	16 28	9 12	Morn.	6 47	6 4
1 7 8	D. of Cullib. Co.	7 24	4 35	6 46	4 28	0 30	7 49	
1	7 May 1- 6-7 am	7 26	4 33		oN.36	I 44		
19	L.May.da at Lon.			17 3			,	15 54
10	-	7 22	4 31	17 20	5 47	2 59	9 18	15 48
II	St. Martin B. & C.	7 29	4 30	17 36	10 52	4 18	10 10	15 40
A.	25 S. aft. Trin.	7 31	4 29	17 53	15 29	5 39	IX 7	15 32
13	Britius B.	7 32	4 27	18 9	19 14	)rifes.	Morn.	15 27
14		7 34	4 25	18 24	21 44	4A.50	0 6	15 13
15	Machutus B.	1 36	4 23	18 40	22 38	5 50	1 9	15 2
16		7 37	4 22	18 55	21 56	7 3	2 14	14 51
17	Hugh Bp. Linc.	7 38	4 21	10 10	19 42	8 20	3 16	
18	110gn bp. Lines		4 19	19 24	16 15		,	1 3/1
1.0	26 S. aft. Trin.		1 7		12 0	9 40		
A.	Edmund K. &M.	7 42				Morn.	5 7	14 12
20	Edimpila (2) 60-14.	7 44		19 51		TAJOL II.		13 58
2 1		7 45	4 15	20 4	2 23	0 14	6 46	13 42
22	O. Martinm Day.	7 40	4 14	20 17	25.45	1 27	7 31 8 15	13 26
23	St. Clem. B.&M.	7 48	4 12	20 30	7 28	2 38		13 9
24		7 49	4 11	20 42	II 52	3 47	9 1	12 51
25	D. of Gloue, bo.	7 50	4 10	20 54	15 38	4 56	9 44	:2 32
-	27 S. aft. Trin.	7 51	4 9	21 5	13 44	6 3	10 29	12 13
A.	Ay So allo Atillo	7 52	4 8	21 16	21 1	7 7	11 17	11 53
27	Torm and		4 7	21 26	, 20 -	) fets.	OA 6	i I 32
1	Term ends.	7 53	4 6	21 37	22 38		0 54	11 10
29	C. 0-1	7 44	10.00	28 46		4A.54	1 44	
130	St. Andrew.	P12,D,	A STER D.	40	33	5 49		10 40
-		-		-	-		F7 1	
J	Day   Length	Helioc.			Helioc.		Hel oc.	
Days	decreaf. of Day.	Plac. L	Plac. 1	Plac. &	Plac.	Plac. Y	Plac. Q	rifes.
1	6 59 9 35	250546	210	29:233	9822	1481 5	171.	9 A 59
7	1 221 2 32		2 28			13 51	3 877	
13	7 21 9 13		2 57	1116		311736		
119	7 58 8 36		3 25	8 17	1		179633	
25	1 / 5-1 2	26 40	3 54		1 ' '		1	
143	10 141 0 20	-0 40	3 34	1. 1)	1 3 14 54	1-3		

November 1769.

					0.011.		1,09	•		-
1	3/1	aylig. [[	Daylig !	Durat.	Node	Lat. b	Lat. 7	Mat. 8	Lat. Q	Lat. 10
1.		rgins.	ends.	Twilig.	D in 1	North.	North	North.		South.
1.	1	- 15	6 43	1 59	16 49	0 12	0 40	0 2:	Z I 39	2 17
1		5 17		2 2	16 29	0 12	,		1 27	1
1.	7	5 25	6 26	2 3	16 10	0 12	0 30			1N.15
	13	5 34	6 19	2 5	15 50	0 14	0 38	0 1		
	19	5 41	6 12	2 7	3 0	1 -9				
1	3.5	5 40	-		15 50	0 15	0 37		1	
1	02	0	m	2 1	) Lat.	5 0	11 m	13 n	११ 🚔	2 m
1	Davs	d. m		-		17 00	-		-	R
ľ	1	9 21	43	11 27	05.21	2 1		3 1	9 5 7	26 4
1	2	10 22		13 13	ON.43	2 2		4	0 6 21	25 37
1	3	1I 22	13	5V9 0	1 45	2 3	28 5	4 4	1 7 34	
	4	12 22	28	16 49	2 44	2 4	29 I	5 2		24 16
1	A	12 23	46	28 40	7 36	2	10 20	6	310 0	23 21
ł	6	14 2:	b	100057		2 6	29 3	0 4	4 11 13	-
1	7	15 21	,	23 24	4 19	2		1		1.
1	8	10 2		67614	5 10	1		3 4	6 13 40	
1	9	17 24		19 28	5 13			6 8 4		1 2 33
1	10	18 24		1. V 9	4 50	1 2	3 0 3			
1	-		-	-	-	-	-	-	-	
ı	II	19 2	5 7	17 22	7		8 0 4	31	0 17 21	1.0 0.1
н	A	20 2	' 3-	1 -0 :	1 3 3	-	-1 -		1 18 35	1 , 3,1
П	13	21 2		1	2 20				9 49	1 2 1
1	14	22 2	20	1 11 52			8 1 2		3 21 2	12 -41
- [	15	23 2	7 12	10 40	o S. 1	2	8 1 3		5 22 16	1 36
-1	15	24 2	7 48	1957		2 2	7 1 5		16 23 30	10 59
1	17	25 2		16 41	2 4		7 2	31 .	18 24 4	
۱	18	26 2		150 4		3 2		6114 5	9 25 50	9 10 26
	A	27 2		15 6	4 3	1 2	6 2 3		27 1	
	20	28 3		28 4:	51	4 2	1 2 4	2 16 2	28 2	1cD.33
п	21		I 7	12110	5 1	6 2	4 2 4	6 17	1 9 4	التحريب فيتمرين
	32		1 51	25	5 1	-		C 17 4		
ı	23		2 37	7=1	1 )	1		18 2		
	24		3 24	20 I			1 2	7 9	9 3 2	1., 3/
	25	2	1 12	2 m 2	3 3			11 -	4 3	1
	A				-		-			
-	27		,	14 3		1 1 4				01.
	28	5 3	5 52	26 2 8 T 1					57 8 2	1,5 491
-				1				0 1		10 34
	19	7 3	7 38		. 1	-	3 4	T 1	39 9 3	1 6
	10	0 3	3 33	11/200	1 3	2 1 5	4 :	00-3	2110 5	2 18 54
	-		1		-		-	- 5	-	-
•	D.	Jupiter						I Dic	3 Dec. S	Dec. Q
	142	lets.	rifes.		legs.	N. ret	. Sout	h Sout	. South	South.
1	3	5A.38	6M3	6. 3M5	C 4A.1	0 19	7 '9	13 12	18 0 3	21 31
	7	5 18		5 4	8 rifes.	19	9	~ 1		1 0 0
	17	4 57		5 4 2		5 19		10 15	43 3 2	14 42
	18	4 39		4 4 4	2 5 5		8 20			1 12 44
I	25	4 14		3 4 5	1 2 2	6 20	1/20		- 1 -	5/13 36
	-	-	_				-	-	1	-

## December hath XXXI Days. White.

#### The LUNATIONS.

Fuft Quarter the 6th Day, 48 Minutes of the Horenson.
Full Moon the 13th Day, 34 Minutes after 6 in the Morning.
Laft Quarter the 20th Day, 11 Minutes before 1 in the Morning.
New Moon the 28th Day, 57 Minutes paft 3 in the Morning.

1 -:								
M		San	1 Sun	, Dec. @	Dec.	, Moon	, Moon	Clock
D.	semaikable Days.	rifes.	fets	South.	South.	fets.	South.	aft! Sun
1	The second name of the second	-	-		-	-	-	-
1		7 57	4 3		20 19			10 25
2		7 58	4 2	22 6	117 4		3 16	10 2
A	Advent Sunday.	7 59	4 3	22 T	14 28	3 9 1	4 2	9 38
4		7 59	4 0	22 21	10 2:	10 0	4 41	9 13
5		8 0	4 0	22 20			5 3	8 47
) -6	21		4	-	2	-	-	
		8 1	5 59	22 36	1 6	Morn.	6 13	8 21
7		8 2	5 58			0 30	6 59	7 55
18	Concept. B. V.M.	8 3	5 57	22 49		1 45	7 48	7 28
9				22 53	13 36		8 50	7 1
A		8 4		, ,				
-	-		5 55	23 9	17 41	4 27	9 54	
11		8 5	5 5!	2.3 5	20 45	5 40	10 37	6 6
12		8 6	5 54	23 9	22 21	7 1	11 40	4 38
13	Lucy V. and M.	8 6		23 13	22 2	Drife	Morn-	5 10
14		8 6	5 54				0 40	4 41
15			5 54	23 17		5 47		
		8 7	5 53	23 20	17 43	7 4	1 46	4 12
16	Camb Ter. cuds.	8 7	5 53	23 22	13 35	8 2	2 45	3 42
A	3 un in Advent.			23 24	8 46	9 47	3 38	3 12
18	Oxt. Term ends.	8 8	5 53					2 42
19	OAI. Z STIH CHAS.	8 2 8 8	5 52		3 40			2 11
	Ember Week.		5 52	23 27	1527	Morn.	5 16	-
20	Emper Week.	8 8	5 52	23 28	6 20	0 16	0 1	1 41
21	St. Thomas.	ShorteA	Da .	23 28	10 52	1 26	6 46	I II
22		8 81		23 28	7-	2 3:	7 30	0 41
23		8 8			1 49		8 16	OII
-	Con inchiance		5 52	23 27	,		-	obef20
A	4 Sin. in Advent		5 52	23 26	20 33	4 47	9 3)	
25	Christmas Day.	3 7	5 53.	23 24	22 4	5 48	9 51	0 50
26	St. Stablien.	8 7		23 22	22 38	6 42	10 38	I 20
27	St. Ic o E ang.	8 7			32 11	7 28	11 26	I 50
28							_	2 10
	Holy Innocente.			23 17	20 44	) fets.	0A 14	
29		3 6		23 13	18 25	5A.32	0 59	2 48
30		8 5	5 55	23 9	15 16	6 38	I 47	3 57
A	I Sun aft. Chrift	8 - 4		23 5	11 26	7 4.	2 31	3 46
		13 11		-	Helice.	Hel.oc.		Saturn
Da				Helioc.	FIETH C.	01 - 0		rifes.
Days	de crea. of Day.	Plac.	Plac. 1	Plic. 3	Plac. 🖯	Plac. 9	Piac. Q	files.
I	8 28 8 0	26005:	4.1 22	141111.	9П39	2=-48	IOMP	7A.49
_	(7 20	27 6			15 45		12-14	7 21
7						22 9	2111 5	6 53
13		27 20	5 19		21 52			6 25
19		27 33		23 24	27 58.	111147		
251	incre. 2 7 46	27 47	6 15	26 30	420 5	11 24	67391	5 50
-		-					-	

2

				7		47											
					D	ece	em	ber	1	76	9.						
Da	Dayl	g.IDa	aylig.	Dur	at.	No	ode 1	Lat.	. Tol	Lat	. 71	Lat.	31	Lat.	41	Lat	. 9
ays	begin		nds.		lig.	Di	1	No	rth.	Non	th.	Nor	h.	Nort	h.	Nor	tn.
1		54 6		2,	8	15	10	0	15	0	37	0	5	E	37	I	59
7		57 6		2 2	10	14	50 29	0	16	0	37 37	0 8	. 3	1	29 18	0	33
13	6	1 5		2	11	14	9	0	17	0	37	0	7	r	6		01.
25	6	1 5	59	2	11	13	49	0		0	36	0	10	0	53	0	50
Days	d.	m.	7.	)	100	)	Lat.	b	255	1	7	3	m	7	m	Ŏ	HI
18	-	فالتشاعدون	29	7.0		21	N 33	1	-	5	12	14	3	22	6	20	9
2	9	39	25	13	38	3	28	I	49	5	25	24	45	13	21	2.1	27
A	II	41	22	7.		4	13	I	4:	5	38	25	28	14	36	22	47
4	12	42	18	19	43	4 5	47	A E	42	5	52	20	10	15	50	24	30
1 -6	14	44	18	14	54	5	18	I	38	6	18	27	35	18	19	26	53
7 8	85	45	19	28	2	5	10	I	3	6	32	28	17	19	34	28	18
	16	46	2.1	117	33	4	42	I	32	6	45	2,8	59	20	49	29 11	45
9 A	13	47	24	25	33	4	2	I	29	7	5°	29 01	42	23	19	2	40
II	10	49	31	24	48	I	50	1	23	7	25	I	7	24	34	4	-8
12	20	50	3.5	91	-, -	0	28	I	20	7	38	I	49	25	49	. 5	37
13	2.1	5 X	40	25	9	0 5	8.56	£	17	7 8	52	2	32	27	4	7	
14	22	53	46	103	24	3	16	I	14	8	18	3	14	28	19	10	35
16	24	- · · ·	59			4	21	- K	7	8	31	4	40	01	49	11	35
A	25	56	7	24	24	4	57	E	-3	8	45	5	22	2	4	13	5
18	26	57	15		214	5	15	I	0	8	58	6	5	3	19		36
19	27	58	33	2.1	3.5	5	15 58	6	56	9	24	7	48 31	4 5	34 49	16	7 23
21	Vg	0	42	17	12	4	28	0	48	9	37	8	14	-	4	19	11
22	1	1	52	29	32	3	46	0	45	9	50	8	57	78	19	20	44
2 3 A	2	3	I		138	2	54	0	41	10	3 16	9	40	9	34	22	16 . 48
20	3 4	4 5	22	23	34	1 0	56	0	37	10	20	10	2 3	12	49	23	21
26		6	33	17	11	00	-	0		10	42	II	49	13	19	26	
27	6	7 8	44	28	57	1	17	0	25	CI	55	121	32	14	34	28	54 28
28	7 8	3	54	10V		2		0	20 16	II	8	13	16	15	49	ογ.	36
30	9	11	- 5		<b>3</b> 9 ₩19	3	13	0		II.	3	13	59	18	19	3	30
A	10	12	26	16	49	4	38	0	7	1.1	46	15	26	19	34	4	46
Days	Juon		Mars		nu .		rcu.	Die	· h	Dec	74	Dec		Dec.		Dec	
	rifes	-	fes !		e .	-	+S.	-	th.	Sou			th.	Sout		Sou	
1 7	7M	30 6	M31		117	51	M 59	20	3	20	30	18	44	13	58 14	18	54
7	6	3 6	20	5	3 <sup>2</sup>	6	48	20	7	21	50	19	40	18	17	21	33
19	6	14 6	-	6	5	7	12	20	16		16	:I	36	20	2	22	55
25	6	4 6	.20	6	19	7	32	20	22	21	29	-2	19	21	2	24	14



# Of the ECLIPSES this Year 1769.

This Year will produce Five Eclipses, Three of the Sun, and Two of the Moon, which will happen in the following Order:

The first Eclipse is of the Sun, and will happen on Sunday the Son Day of January, near our Two o'Clock in the Morning, consequently lavisible to us, and to all these Parts of the Earth.

The second Eclipse is likewise of the Sun, and will be visible in our like of Great Britain, and to all Europe, if Clouds interpose not. It will happen our Sun ay h. 4th Day of June in the Morning; according to the following Type and Computation.



Begins
M.onle
Ends
Duration
Digits Eclipfed

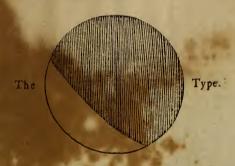
Ţ	Lendo	n.	1	York		E	Inbu	rg.	
6 7 8	37 34 27	25	6 7 8	33	f. 10 16	7 3	29 88 22	55 49	Jure 4th Morn.
I	49,	50	60	2.1	4	60	531	-#	

### Of the ECLIPSES, 1769.

The third Edico is of he Moon, and will happen on Monday the roth Day of June, near our Eight o'Clock in the Morning; therefore invisible here. This will be a Toril Eclipse with some Continuance, and will be visible in the Editorn Parts of Asia.

The fourth Ecliple is of the Sun, and will happen on Tuesday the 28th. Day of Novaber, near our Eight o'Clock in the Morning; but invisible here and in all these Parts of the Globe.

The fifth and tast Eclipse is of the Moon, and will happen on Wednesday the 13th Day of December, in the Morning, according to the following Type and Calculation, and will be visible here.



	1 L	ondo	n. !						gh.	
	h.	m.	f.	h.	m.	ſ.	h.	m.	1.	
Begins	1 5	2	8	14	57	41 4	4	48	55	Decem. 13th
Middle	6	21	31	16	17	4	6	8	18	Morne
Ends	7	40	54	7	36	27	7	27	41	AVAOLIIIS
Duration	2	38	46	2	38	46	2	38	46	
Digits Eclipsed	80	551	2011	86	55	20#	1 8.	55	20#	

June 3d this Year Venus wi'l pass over the Sun's Disk; and appear like a black Spot in it. Central Ingress 7h. 51m. Afternoon; Central Egress 2h. 3m. next Morning.

November 9th Mercury will likewife pass over the Disk of the Sun. Central Ingress 7h. 36m. Afternoon: Central Egress 28 Minu, es after Midnight.

A TABLE

Speculum Phænomenorum ad Annum 1769.									
Days	JANUARY.	Days	MARCH.	Days	Junz.				
2 6 10	) in Abogeo. グリ)14h. グロ) 1th. グロ) tfh. で in Aphelio.	26 26	Vefp. 45° 55', fets 4h. 39m. a'ter him. 6 1/2 1) 1h. ) in Apogeo.	3 3 4 :	) in Periseo.				
16 19 20 28	が 2ch・ ) m P tigeo.  ⑤ in 無 4h. 12m・ ろ b ) 7h ろ b ) 1 th・	29 Days   40	APRIL.	6 6 15 17 20					
30 Days	in Acogeo.	8 9 9 10	) in Perigeo.  OQ ) 10h.  OG ) 19h.  Q Elong. Max. a ()	2 2 2 2 7	Vefp. 2 2 2,1, fets th. 3 m. after him. V in 8. In Aphelio.				
6 9 12 13 13	of Charles	12 19 22	Mat. 27° 33', rifes 32m. before h m. 6 h ) 3h.  (i) in 8 8h. 31m. 6 h ) oh.	Days	July.  July.  Din Perigeo.				
16 17 18 2	of h ) 11h. (a) in H 19h. 1m. (b) in Q (c) in Perihelio. (c) Elong. Max. à (c)	23 Days   4	MAY.	3 4 5 5					
26	Vefp. 13° 5', fers th. 46m. a ter him. ) in Aporeco. (3 1/2 ) 18h.		) in Per'geo. o o ) 21h. o o ) 7h. o h ) 11h. o h o '3h.	12 13 13 14	グリ) 8h. h in 分 d 分 h 12h. ) in Apogeo. グラ 21h.				
Days   00 = 5	MARCH.	19 20 20	o in Apogeo.	22 27 28 29 31	(1) in (1) 5h. 2; m. (5h. Q 18h. (1) in Perigeo.				
13 13 17 17	O O 3h. O O O O O O O O O O O O O O O O O O O	27	1 2 11 3	31	ŏħĎ gh				
-	apparent time.		0 -						

Speco'um Phænomenorum ad Annum 1769									
Days Assust.	Days	SEPTEMBER.	Days	NOVEMBER.					
3 6 3 6h. 6 h 8 8h. 8 7 Elong, Max. à 6	24	Sin Q.	15 18 21 25	) in Perigeo.  (b) 2h.  (in T11h. 39m.  (V) 5h.					
Mat. 18° 49' rifer th. 37m. before him in Apogro.	Diys	Остовек.	25 26 26	<b> </b>					
13 Q Elong. Max. á @  Mat. 45° 44 rises  3h. 45m, beiore him	3	in Apogeo.	27	O Elong. Max. à O Mat. 20° 7', rifes 2h. 2m. before him.					
22 in Perihelio. 22 in M 2th 42m. 25 in Perigeo. 27 in Perigeo.	13	O Th. O Elong. Max. à O Vesp. 24° 121, sets	29 ()ays	) in Apogeo:  DECEMBER.					
27 30 69 17h.	19	40m. after him. Join Perigeo.  6 17 ) 1811.  in M 15h. 42m.	7 8 13	oo oh.					
SEPTEMBER.  J  J  O  O  O  O  O  O  O  O  O  O  O	26 28	Sy n oh. Sy ich.  Y in Perihelio.	13	6 11 8 14h. 2 h D 9h. 2 in 88					
4 6 15 Q 9h. 5 0 L J 9h. 7 in Apogeo.	30 , Da	の文)x7h. の文)zih.	23	○ in W 23h.45m.					
12 21 ) in Perigeo. 21 ) in O. 22 (in \times 8h. Im.	Days   n 9	) in Apogeo.	25 25 25	るなり 11h. るる) 12h.					
	9 14 14	o in Co. o in Perihelio.	25	) in Apogeo.					

### ADVERTISEMENT.

T Bingham, near Nottingham, young Gentlemen and others may be commendably boarded with the Author of this EPHEMERIS, at reasonable Rates, and be taught by him with the utmost Care and Expedition the following Parts of the Mathematics, viz. Geometry, Algebra, Trigonometry, Navigation, Astronomy, Dialling, The Use of the Globes, and other Marbematical Instruments.

A Table of the right Ascensions in Time, Semiduenal Arches, Declinations, and Magnitudes of 30 remarkable fixed Stars, with their Names, and Bayer's Literal Reserences, as they stand in Mr. Flamsteed's Catalogue. Exactly rectified to the Beginning of the Year 1769.

The Names of STARS.  The Southern Star in Andromed's G'rdle, Mirach. The bright one in her left Foot, Alamack. The unformed Star above the Ram's Head.  The Head of Medufa, Aigol. In Perfeus's right Side, Algenib. The Middle and brighteft of the y Stars.  The Bildle and brighteft of the Foot of Orion, Rigel. The middle Star in his Girdle. In his right Shoulder, Bettlegufe. In his right Shoulder, Bettlegufe. In his right Shoulder, Bettlegufe. In the Head of the 1st Twin, Caftor and Apollo. In the Head of the 2d Twin, Pollux or Hercules.  The Left hand, Asifta. Between the Thighs of Bootes, Arcturus.  In the Virgin's right Wing, Yindemiatrix.  In the Northern Scale of Libra. In the Southern Scale of Libra. In the Head of Serpentarius. Eright Star in the Eagle, Atain. The Head of Serpentarius. Eright Star in the Eagle, Atain. The Head of Serpentarius. Eright Star in the Eagle, Atain. The Hould of the Southern Fight, Fomalhaut.  In the Wing o' Pegafur, Markab. A 22 53 9 7 16 43 13 56 51 N 2		mi	-					_					-
The Names of STARS.  The Southern Star in Andromed's G'ridle, Mirach.  The bright one in her left Foot, Alamack.  The unformed Star above the Ram's Head.  The unformed Star above the Ram's Head.  The Head of Medufa, Aiguil.  In the Head of Medufa, Aiguil.  The Middle and brighteft of the 7 Stars.  The Bull's South Eye, Aldebaran.  In the left Shoulder of Auriga, Capella.  The middle Star in his Girdle.  The his right Shoulder. Betelgeufe.  In the Head of the 1st Twin, Caffor and Apollo.  In the Head of the 2d Twin, Pollox or Hercules.  In the Extremity of his Tail, Deneh.  In the Virgin's right Wing, Sin the Extremity of his Tail, The Left hand, Asiffa.  Between the Thighs of Bootes, Arcturus.  The Bouthern Scale of Libra.  The Bright Star in the Northern Crown.  The Head of Serpentarius.  The Head of Serpentarius.  The Head of Serpentarius.  The Head of Serpentarius.  The Head of the Southern Crown.  The Head of the Southern Crown.  The Head of the Southern Crown.  The Head of Serpentarius.  The Head of the Southern Crown.  The Head of Serpentarius.  The Head of the Southern Crown.  The Head of the Southern Crown.  The Head of the Southern Crown.  The Head of Serpentarius.  The Head of the Southern Crown.  The Head of Serpentarius.  The Head of Serpentar		3		A C-		Sen	rid 1	18	200	1:	sian	3	
The Southern Star in Andro- meda's G'rdle, Mirach. The bright one in her left Foot, Alamack. The unformed Star above the Ramis Head. In the Head of Medufa, Aignl. In the Head of Medufa, Aignl. In Perfeus's right Side, Algenib. The Middle and brighteft of the y Stars. The Bull's South Eye, Aldebaran. In the left Shoulder of Auriga, to Capella. The left Foot of Orion, Rigel. The middle Star in his Girdle. In this right Shoulder, Betelgeufe. In the great Dog's Moath, Strus. In the Head of the 1st Twin, Caffor and Apollo. In the Head of the 2d Twin, Pollux or Hercules.  In the Virgin's right Wing, Mindemiatrix. In the Extremity of his Tail, Dench.  In the Southern Scale of Libra. The Eright Star in the Northern Crown.  In the Mouth of the Southern Crown and the Head of the Eagle, Atair. In the Mouth of the Southern Crown and Crown and Crown.  In the Mouth of the Southern Crown and Crown.  In the Mouth of the Southern Crown and Crown.  In the Mouth of the Southern Crown and Crown and Crown and Crown.  In the Mouth of the Southern Crown.  In the Mouth of the Southern Crown and Crown and Crown.  In the Mouth of the Southern Crown and Crown and Crown.  In the Mouth of the Southern Crown.  In the Mouth of the Southern Crown and Crown and Crown and Crown.  In the Mouth of the Southern Crown and Cr	The Names of STARS	1	v.	AIC	en	Ar	che	s. i	DEC	41112	fioi.	بو	
The Southern Star in Andromed's Girdle, Mirach. The bright one in her left Foot, Alamack. The unformed Star above the Ram's Head.  The unformed Star above the Ram's Head.  The Head of Medufa, Aighl. In Perfeus's right Side, Algenib. The Middle and brighteft of the 7 Stars. The Bull's South Eye, Aldebaran. In the left Shoulder of Auriga, Capella. The middle Star in his Girdle. The his right Shoulder, Betelgeufe. In the Head of the 1st Twin, Cafel of the 2d Twin, Pollox or Hercules.  The Head of the 2d Twin, Pollox or Hercules.  The Lion's Heart, Regulus. In the Extremity of his Tail, Deneh.  The Korthern Scale of Libra. The Bright Star in the Northern Crown.  The Mouth of the Southern Regulus. In the Mouth of the Southern Crown.  The Head of Serpentarius. Eright Star in the Eagle, Atair. In the Mouth of the Southern Post of	The Ivalues of STAKS.	15	h.	m.	6	b	m		1.	m	· 6.		
The bright one in her left Foot, Alamack. The unformed Star above the Ram's Head.  In the Head of Medufa, Aighl. In Perfeus's right Side, Algenib. The Middle and brighteft of the 7 Stars. The Bull's South Eye, Aldebaran. In the left Shoulder of Auriga, Capella. The middle Star in his Girdle. The his right Shoulder, Betelgeufe. In the Head of the 1st Twin, Caffor and Apollo. In the Head of the 1st Twin, Caffor and Apollo. In the Head of the 2d Twin, Pollox or Hercules.  The Lion's Heart, Regulus. In the Extremity of his Tail, Deneh.  In the Virigin's right Wing, Yindemiatrix. In the Northern Scale of Libra. The Bright Star in the Northern Crown.  In the Mouth of the Southern Reight Star in the Bagle, Atair. In the Mouth of the Southern Fish, Fornalhaut.  The Mouth of the Southern Fish, Fornalhaut.  The Mouth of the Southern Fish, Fornalhaut.  The Head of the Southern Fish, Fornalhaut.  The Head of Serpentarius.  Bright Star in the Eagle, Atair. In the Mouth of the Southern Fish, Fornalhaut.		l-					117 *	-	-	-		-	-
The bright one in her left Foot, Alamack.	The Southern Star in Andre-	R		-6			6	-	24	22	25 N	2	
The bright one in her left Foot, Alamack.  The unformed Star above the Ram's Head.  In the Head of Medufa, Aigab. In Perfeus's right Side, Algenib. The Middle and brighteft of the 7 Stars.  The Buil's South Eye, Aldebaran. In the left Shoulder of Auriga.  Capella.  The left Shoulder of Auriga.  The left Shoulder of Auriga.  The left Foot of Orion, R. gel. The middle Star in his Girdle. In his right Shoulder. Batelgeufe.  The middle Star in his Girdle. In the Head of the 1st Twin, Caftor and Apollo.  In the Head of the 2st Twin, Pollox or Hercules.  The Head of the 2 d Twin, Pollox or Hercules.  In the Extremity of his Tail, Ponch.  In the Virgin's right Wing, Archurus.  In the Northern Scale of Libra. The Eright Star in the Northern Crown.  The Head of Serpentarius.  Between the Thighs of Bootes, Archurus.  The Bright Star in the Eagle, Atair.  In the Mouth of the Southern Pisch Formalbaut.  The Mouth of the Southern Pisch Formalbaut.  The Head of the Eagle, Atair.  In the Mouth of the Southern Pisch Formalbaut.	meda's Girdle, Mirach.	1-	Ĭ	20	33	0	U	20	34		33.		
Alamack. The unformed Star above the Ram's Head. In the Head of Medula, Algenia. In Perfeus's right Side, Algenia. The Middle and brightest of the y Stars. The Bull's South Eye, Aldebaran. In the left Shoulder of Auriga, to Capella. The left Foot of Orion, Rigel. The middle Star in his Girdle. In this right Shoulder, Betelgeuse. In the great Dog's Mooth, Strius. In the Head of the 1st Twin, Castor and Apollo. In the Head of the 2d Twin, Pollux or Hercules.  The Lion's Heart, Alohard. The Lion's Heart, Alohard. The Lion's Heart, Regulus. In the Virgin's right Wing, Youndemiatrix. In the Virgin's right Wing, Anther Strius. In the Northern Scale of Libra. The Bright Star in the Northern Crown.  The Bouthern Scale of Libra. The Bright Star in the Harp, Lyra.  Arght Star in the Eagle, Atair. In the Mouth of the Southern Fish, Fromalhaut.  Fish, Formalhaut.		1	- 1							١	I See		
The unformed Star above the Ram's Head.  Ram's Head.  Ram's Head.  In the Head of Medufa, Aighl.  In Perfeus's right Side, Algenib. The Middle and brighteft of the 7 Stars.  The Middle and brighteft of the 7 Stars.  In the left Shoulder of Auriga, the Capella.  In the left Shoulder of Auriga, the Capella.  The middle Star in his Girdle.  In his right Shoulder, Betelgeufe.  In the great Dog's Moath, Sirius. In the Head of the 1st Twin, the Head of the 1st Twin, the Head of the 2st Twin, the Head of the 3st Twin, the Head of Serpentarius.  In the Forthern Scale of Libra.  The Bright Star in the Harp, Lyra.  Singht Star in the Eagle, Atair.  In the Mouth of the Southern the Northern the Head of the Southern the Northern the Head of the Southern the Northern the Head of the Southern the Hea		12	I	49	47	fet	s n	ot	41	12	17N	-	3
Ram's Head.		1											
In the Head of Medufa, Aigul. In Perfeus's right Side, Algenib. The Middle and brighteft of the 7 ctars. The Buil's South Eye, Aldebaran. In the left Shoulder of Auriga, to Capella. The left Foot of Orion, Rigel. The middle Star in his Girdle. In his right Shoulder, Betelgeuse. In the great Dog's Moath, Sirius. The the Head of the 1st Twin, to Head of the 1st Twin, to Head of the 2st Twin, the Wirgin's right Wing, the Extremity of his Tail, The Bright Star in the Northern Crown.  In the Southern Scale of Libra. The Bright Star in the Harp, Lyra.  Sirght Star in the Eagle, Atair. In the Mouth of the Southern the Fish, Fornalhaut.		a	I	54	4	9	0	10	22	21	24 N	2	
In Perfeus's right Side, Algenib. The Middle and brighteft of the 7 stars. The Buil's South Eye, Aldebarantin the left Shoulder of Auriga, to Capella.  In the left Shoulder of Auriga, to Capella. The left Foot of Orion, Rigel. The middle Star in his Girdle. In his right Shoulder, Betelgeuse. In the great Dog's Moath, Sirius, to the Head of the 1st Twin, to Head of the 1st Twin, to Head of the 2st Twin, to the Kritenity of his Tail, Toleneb.  In the Virgin's right Wing, to the Northern Scale of Libra. The Eright Star in the Northern Crown.  In the Southern Scale of Libra. The Head of Serpentarius. Bright Star in the Eagle, Atair, in the Mouth of the Southern to the Sout	Ram's Head.	-		,,		1	,	- 3					•
In Perfeus's right Side, Algenib. The Middle and brighteft of the 7 stars. The Buil's South Eye, Aldebarantin the left Shoulder of Auriga, to Capella.  In the left Shoulder of Auriga, to Capella. The left Foot of Orion, Rigel. The middle Star in his Girdle. In his right Shoulder, Betelgeuse. In the great Dog's Moath, Sirius, to the Head of the 1st Twin, to Head of the 1st Twin, to Head of the 2st Twin, to the Kritenity of his Tail, Toleneb.  In the Virgin's right Wing, to the Northern Scale of Libra. The Eright Star in the Northern Crown.  In the Southern Scale of Libra. The Head of Serpentarius. Bright Star in the Eagle, Atair, in the Mouth of the Southern to the Sout	In the Head of Medufa, Aigol.	13	2	52	4	(P)	ts B	101	10	2	27 N	2	-
The Middle and brightest of the 7 Stars.  The Bull's South Eye, Aldebaran.  In the left Shoulder of Auriga, to Capella.  In the left Shoulder of Auriga, to Capella.  The middle Star in his Girdle.  In his right Shoulder, Betelgeuse.  In the great Dog's Moath, Sirius.  In the Head of the 1st Twin, Cafter and Apollo.  In the Head of the 2d Twin, Cafter and Apollo.  In the Head of the 2d Twin, Cafter and Apollo.  In the Head of the 2d Twin, Cafter and Apollo.  In the Head of the 2d Twin, Cafter and Apollo.  In the Extremity of his Tail, Cafter and Apollo.  In the Extremity of his Tail, Cafter and Apollo.  In the Extremity of his Tail, Cafter and Apollo.  In the Extremity of his Tail, Cafter and Apollo.  In the Star in the Northern Scale of Libra.  In the Northern Scale of Libra.  In the Northern Scale of Libra.  The Head of Serpentarius.  In the Head of Serpentarius.  Bright Star in the Eagle, Atair.  In the Mouth of the Southern for the Mouth of the Mouth of the Mouth of the Southern for the Mouth of the Mouth o													3
The Bull's South Eye, Aldebaran.  In the left Shoulder of Auriga, {             Capella.  The left Foot of Orion, Rigel. The middle Star in his Girdle. The middle Star in his Girdle. In the great log's Moath, Sirus. In the Head of the 1st Twin, }             Caffor and Apollo.  In the Head of the 1st Twin, }             Caffor and Apollo. In the Head of the 2d Twin, }             Pollox or Hercules.  In the Head of the 2d Twin, }             Pollox or Hercules.  In the Extremity of his Tail, }             Deneb.  In the Virgin's right Wing, }             In the Virgin's right Wing, }             In the Virgin's right Wing, }             In the Nouthern Scale of Libra.  The Bright Star in the Northern }             Crown.  In the Mouth of the Southern }             In the Head of Serpentarius.  Bright Star in the Eagle, Atair. In the Mouth of the Southern }             Fish, Formalbaut.		1	3	,	40	1 10	r2 17	UL	149	*	24 14	~	3
The Bull's South Eye, Aldebaran.  In the left Shoulder of Auriga, (Capella.  The left Foot of Orion, R gel. The middle Star in his Girdle. In his right Shoulder. Betelgenge. In the great Dog's Mouth, Sirus. In the Head of the 1st Twin, Caffor and Apollo. In the Head of the 1st Twin, Caffor and Apollo. In the Head of the 2d Twin, Caffor and Apollo. In the Head of the 2d Twin, Caffor and Apollo. In the Head of the 2d Twin, Caffor and Apollo. In the Head of the 2d Twin, Caffor and Apollo. In the Extremity of his Tail, Caffor		n	3	33	43	8	16	26	2.2	28	ICN	2	
In the left Shoulder of Auriga, {     Capella.     The left Foot of Orion, Rigel.     The middle Star in his Girdle.     In his right Shoulder, Betelgeufe.     In the great Dog's Moath, Sirus.     The Head of the 1ft Twin, {     Caffor and Apollo.     In the Head of the 2d Twin, {     Pollox or Hercules.     The Lion's Heart, Alohard.     The Lion's Heart, Regulus.     In the Extremity of his Tail, {         In the Virgin's right Wing, {         Vindemiatrix.     In the Virgin's right Wing, {         Vindemiatrix.     In the Southern Scale of Libra.     The Bright Star in the Northern {         Crown.     The Bropion's Heart, Antares.     In the Roothern Scale of Libra.     The Head of Serpentarius.     Bright Star in the Harp, Lyra.     Singht Star in the Eagle, Atair.     In the Mouth of the Southern {         Fight Star in the Baye, Atair.     In the Mouth of the Southern {         Fift, Fornalhaut.	the 7 Stars.	1							. 3		20.	1 3	
In the left Shoulder of Auriga, {     Capella.     The left Foot of Orion, Rigel.     The middle Star in his Girdle.     In his right Shoulder, Betelgeufe.     In the great Dog's Moath, Sirus.     The Head of the 1ft Twin, {     Caffor and Apollo.     In the Head of the 2d Twin, {     Pollox or Hercules.     The Lion's Heart, Alohard.     The Lion's Heart, Regulus.     In the Extremity of his Tail, {         In the Virgin's right Wing, {         Vindemiatrix.     In the Virgin's right Wing, {         Vindemiatrix.     In the Southern Scale of Libra.     The Bright Star in the Northern {         Crown.     The Bropion's Heart, Antares.     In the Roothern Scale of Libra.     The Head of Serpentarius.     Bright Star in the Harp, Lyra.     Singht Star in the Eagle, Atair.     In the Mouth of the Southern {         Fight Star in the Baye, Atair.     In the Mouth of the Southern {         Fift, Fornalhaut.	The Bull's South Eye, Aldebaran.	2	4	22	36	7	28	44	16	1	38 N	1	
Capella.   4 59 31   lets not		1	1		-	-		-				-	
The left Foot of Orion, Rigel. The middle Star in his Girdle. In his right Shoulder. Betelgeuse. In the great Dog's Mouth, Strus. In the Head of the 1st Twin, Caftor and Apollo. In the Head of the 1st Twin, Caftor and Apollo. In the Head of the 2st Twin, Procyon. In the Head of the 2st Twin, Pollox or Hercules.  Pollox or Hercules. In the Extremity of his Tail, Deneh. In the Virgin's right Wing, In the Extremity of his Tail, Acturus. In the Virgin's right Wing, In the Virgin's right Wing, Acturus. In the Northern Scale of Libra. In the Northern Scale of Libra. TheBright Star in the Northern Crown.  In the Southern Scale of Libra. TheBright Star in the Harp, Lyra.  Stright Star in the Eagle, Atair. In the Mouth of the Southern Fish, Formalbaut.		d	4	59	31	l ie	ts n	101	145	45	37 N	I	
The middle Star in his Girdle. In his right Shoulder. Betelgeufe. In the great Dog's Mooth, Struss. In the Head of the 1st Twin, Caftor and Apollo. In the Head of the 1st Twin, Caftor and Apollo. In the Head of the 2d Twin, Procyon. In the Head of the 2d Twin, Pollux or Hercules.    Pollux or Hercules.   Po	Capella.	10	1	33	7	1			1				
In the great Log's Mooth, Sirus. In the Head of the 1st Twin, Castro and Apollo.  In the Head of the 2st Twin, Castro and Apollo.  In the Head of the 2st Twin, Castro and Apollo.  In the Head of the 2st Twin, Castro and Apollo.  In the Head of the 2st Twin, Castro and Apollo.  In the Head of the 2st Twin, Castro and Apollo.  In the Head of the 2st Twin, Castro and Apollo.  In the Head of the 2st Twin, Castro and Apollo.  In the Extremity of his Tail, Castro and Apollo.  In the Extremity of his Tail, Castro and Apollo.  In the Virgin's right Wing, Castro and Apollo.  In the Southern Scale of Libra.  In the Southern Scale of Libra.  In the Southern Scale of Libra.  The Bright Star in the Harp, Lyra.  In the Head of Serpentarius.  Bright Star in the Eagle, Atair.  In the Mouth of the Southern and Apollo.  In the Mouth of the Southern and	The left Foot of Orion, Riger.	10					20	27	18	29	5 5	1	
In the great Dog's Moath, Sirius. In the Head of the 1st Twin, Caffor and Apollo. In the Head of the 2st Twin, Caffor and Apollo. In the Head of the 2st Twin, Caffor and Apollo. In the Head of the 2st Twin, Caffor and Apollo. In the Head of the 2st Twin, Caffor and Apollo. In the Head of the 2st Twin, Caffor and Apollo. In the Head of the 2st Twin, Caffor and Apollo. In the Lion's Heart, Alohard. The Lion's Heart, Regulus. In the Extremity of his Tail, Caffor and Apollo. In the Virgin's right Wing, Caffor and Apollo. In the Virgin's right Wing, Caffor and Apollo. In the Virgin's right Wing, Caffor and Apollo. In the Northern Scale of Libra. In the Northern Scale of Libra. The Bright Star in the Northern Crown.  In the Southern Scale of Libra. The Head of Serpentarius. Bright Star in the Harp, Lyra.  Surght Star in the Eagle, Atair. In the Mouth of the Southern Apollo.  In the Mouth of the Sout	The middle Star in his Girdle.	3	1.5	21	24	1 5	50	4	I	22	7 5	2	
In the great Dog's Mouth, Strius. In the Head of the 1st Twin, Caftor and Apollo. In the Head of the 2st Twin, Pollox or Hercules. In the Head of the 2d Twin, Pollox or Hercules. In the Extremity of his Tail, Deneh. In the Virgin's right Wing, Windemiatrix. In the Virgin's right Wing, Windemiatrix. In the Virgin's right Wing, Arcturus. In the Southern Scale of Libra. The Boothern Scale of Libra. The Rorthern Scale of Libra. The Boothern Scale of Libra. The Head of Serpentarius. Bright Star in the Harp, Lyra.  Singht Star in the Eagle, Atair. In the Mouth of the Southern Prift, Fornalhaut.	In his right Shoulder, Betelgeuse.	126								20		1	
In the Head of the 1st Twin, { Caffor and Apollo. In the Head of the 2d Twin, } Pollox or Hercules.  In the Head of the 2d Twin, } Pollox or Hercules.  In the Extenity of his Tail, } Dench.  In the Virgin's right Wing, } In the Tail, } In the Southern Scale of Libra. In the Southern Scale of Libra. In the Northern Scale of Libra. In the Northern Scale of Libra. In the Northern Scale of Libra. In the Rorthern Scale of Libra. In the Bouthern Scale of Libra. In the Head of Serpentarius. In the Mouth of the Southern } In th	in the great land's Mouth Sirius.	1	1-		-	1-		-		_		-	_
Caftor and Apollo. In the leffer Dog's Thigh, Procyon. In the Head of the 2d Twin, Pollux or Hercules.  Tydra's Heart, Alohard. The Lion's Heart, Regulus. In the Extremity of his Tail, Dench.  In the Virgin's right Wing, Vindemiatrix. In the Virgin's right Wing, Acturus.  In the Southern Scale of Libra. The Bright Star in the Northern Crown.  The Borpion's Heart, Antares. In the Morthern Scale of Libra. The Bright Star in the Harp, Lyra.  Sirght Star in the Eagle, Atair. In the Mouth of the Southern Fifth, Formalbaut.	in the great Dog swideth, Sinds	i a	6	34	59	4	27	18	16	22	39 S	1	
Tather and Aprilon   The Lion's Heart, Alchard.   The Lion's Heart, Regulus.   The Virgin's right Wing,   The Left hand, Asifta.   The Regulus   The Lion's Heart, Asifta.   The Regulus		1 0	-	7.0			-0				. 37	١.	
In the Head of the 2d Twin, Pollox or Hercules.    Pollox or Hercules.   Pollox or Hercu		1 -	17	19	47	9	38	52	32	23	3 14	I	
The Head of the 2d Iwin,	In the leffer Dog's Thigh, Procyon.	a	1 7	2.7	10	16	99	12	=	40	ATN	,	2
The Lion's Heart, Regulus.	In the Head of the 2d Twin, ?	10	1'									1	
The Lion's Heart, Alohard. The Lion's Heart, Regulus. In the Extremity of his Tail, Dench.   Polymer   Dench	Pollux or Hercules.	13	7	31	- 8	8	58	42	23	34	38 N	2	
The Lion's Heart, Regulus. In the Extremity of his Tail, Dench.  In the Virgin's right Wing, Vindemiatrix. In the Thighs of Bootes, Archurus.  In the Southern Scale of Libra. In the Northern Scale of Libra. In the Northern Scale of Libra. The Pright Star in the Northern Crown.  In the Head of Serpentarius. Bright Star in the Harp, Lyra.  In the Head of Serpentarius. Bright Star in the Eagle, Atair. In the Mouth of the Southern Prift, Fornalbaut.		1-		-		1				-		_	
In the Extremity of his Tail, Dench.  In the Extremity of his Tail, Dench.  In the Virgin's right Wing, Vindemiatrix.  In the Virgin's right Wing, Vindemiatrix.  In the Extremity of his Tail, Vindemiatrix.  In the Houthern Scale of Libra.  In the Southern Scale of Libra.  The Bright Star in the Northern Crown.  In the Sorpion's Heart, Antares.  In the Head of Serpentarius.  Bright Star in the Eagle, Atair.  In the Mouth of the Southern Figh. Formalbaut.  Pith. Formalbaut.		2	9	16	7	1 5	24	47	7	39	35 S	2	
Dench   The Virgin's right Wing,   The Southern Scale of Libra.   The Northern Scale of		a	0	56		1 7	31	EA	13	5	25 N	1	
Dench	In the Extremity of his Tail, ?	B				1 4		34	16	5.1	62 N	1.	2
In the Virgin's right Wing, \{ Vindemiatrix. \} In ther Left hand, Asiffa. \} Between the Thighs of Bootes, \{ Archurus. \} Archurus. \} \{ In the Southern Scale of Libra. In the Northern Scale of Libra. The Bright Star in the Northern \} \{ In the Southern Scale of Libra. The Bright Star in the Northern \} \{ In the Head of Serpentarius. Bright Star in the Harp, Lyra. \} \{ In the Head of Serpentarius. Bright Star in the Harp, Lyra. \} \{ In the Mouth of the Southern \} \} \{ In the Mouth of the Southern \} \{ In the Mouth of the Southern \} \} \{ In the Mouth of the Southern \} \} \{ In the Mouth of the Southern \} \} \{ In the Mouth of the Southern \} \} \{ In the Mouth of the Southern \} \} \{ In the Mouth of the Southern \} \} \{ In the Mouth of the Southern \} \} \} \{ In the Mouth of the Southern \} \} \{ In the Mouth of the Southern \} \} \{ In the Mouth of the Southern \} \} \{ In the Mouth of the Southern \} \} \} \{ In the Mouth of the Southern \} \} \{ In the Mouth of the Southern \} \} \{ In the Mouth of the Southern \} \} \{ In the Mouth of the Southern \} \} \{ In the Mouth of the Southern \} \} \{ In the Mouth of the Southern \} \} \{ In	Deneh.	<u>!</u>	1.	3/	••	7	27	40	1.3	2.	3	1	
Vindemiatrix. In 'ker Left' hand, Asiffa. Between the Thighs of Bootes, Arcturus.  In the Southern Scale of Libra. In the Northern Scale of Libra. The Bright Star in the Northern Crown.  In the Head of Serpentarius. Bright Star in the Harp, Lyra.  In the Head of Serpentarius. Bright Star in the Bagle, Atair. In the Mouth of the Southern Pith, Fornalbaut.    12			-		-	-		-	_			-	_
In her Left hand, Asiffa. Between the Thighs of Bootes, Arcturus.  In the Southern Scale of Libra. In the Korthern Scale of Libra. In the Korthern Scale of Libra. TheBright Star in the Northern Crown.  In the Head of Serpentarius. Bright Star in the Harp, Lyra.  Arghit Star in the Eagle, Atair. In the Mouth of the Southern Fifth, Formalbaut.  A 13 13 0 5 12 5 9 56 46 S 1  14 5 8 7 56 13 20 26 35 N 1  14 4 4 5 0 15 4 2 S 2  15 24 53 8 49 3 27 30 3 N 2 3  15 24 53 8 49 3 27 30 3 N 2 3  17 24 6 7 9 56 12 44 10 N 2  18 29 3 6 45 47 8 15 23 N 1 2  20 4 4 39 2 51 37 30 50 27 S 2 1		8	12	50	39	7	7	1	12	12	5 N	3	
Between the Thighs of Bootes, { Arcturus. }  Arcturus.											-	-	
Between the Thighs of Bootes, { Arcturus. }  Arcturus.	In her Left hand, Asifta.	a	13	13	0	5	12	5C	9	50	46 5	I	
Arcturus.  In the Southern Scale of Libra. In the Northern Scale of Libra. The Bright Star in the Northern Crown.  In the Head of Serpentarius. Bright Star in the Harp, Lyra.  3r ght Star in the Eagle, Atair. In the Mouth of the Southern The Houth of the Southern Pifh, Formalbaut.	Between the Thighs of Bootes, ?	1 1		` _									
in the Southern Scale of Libra. In the Morthern Scale of Libra. The Bright Star in the Northern Crown.  In the Head of Serpentarius. Bright Star in the Harp, Lyra.  In the Head of Serpentarius. Bright Star in the Eagle, Atair. In the Mouth of the Southern Fifth, Fornalbaut.			14	5		7	50	13	20	20	3514		
In the Northern Scale of Libra. The Bright Star in the Northern Crown.  In the Head of Serpentarius. Bright Star in the Harp, Lyra.  Arght Star in the Eagle, Atair. In the Mouth of the Southern Fifth, Fornalhaut.  Pifth, Fornalhaut.		-	-	0	-	-				-		-	-
The Bright Star in the Northern \ \( \text{Crown.} \) \( \text{Crown.} \) \( \text{In e Scorpion's Heart, Antares.} \) \( \text{In the Head of Serpentarius.} \) \( \text{Bright Star in the Harp, Lyra.} \) \( \text{Sirght Star in the Eagle, Atair.} \) \( \text{In the Mouth of the Southern} \) \( \text{Pifh, Fornalhaut.} \) \( \text{Pifh, Fornalhaut.} \) \( \text{Visual Sirght Star in the Eagle, Atair.} \) \( \text{In the Mouth of the Southern} \) \( \text{Visual Sirght Star in the Eagle, Atair.} \) \( \text{In the Mouth of the Southern} \) \( \text{Visual Sirght Star in the Eagle, Atair.} \) \( \text{In the Mouth of the Southern} \) \( \text{Visual Sirght Star in the Eagle, Atair.} \) \( \text{In the Mouth of the Southern} \) \( \text{Visual Sirght Star in the Eagle, Atair.} \) \( \text{In the Mouth of the Southern} \) \( \text{Visual Sirght Star in the Eagle, Atair.} \) \( \text{In the Mouth of the Southern} \) \( \text{Visual Sirght Star in the Eagle, Atair.} \) \( \text{In the Mouth of the Southern} \) \( \text{Visual Sirght Star in the Eagle, Atair.} \) \( \text{In the Mouth of the Southern} \) \( \text{Visual Sirght Star in the Eagle, Atair.} \) \( \text{In the Mouth of the Southern} \) \( \text{Visual Sirght Star in the Eagle, Atair.} \) \( \text{In the Mouth of the Southern} \) \( \text{Visual Sirght Star in the Eagle, Atair.} \) \( \text{In the Mouth of the Southern} \) \( Visual Sirght						14	44.	50	115	4			
The Bright Star in the Northern \ \( \text{Crown.} \) \( \text{Crown.} \) \( \text{In e Scorpion's Heart, Antares.} \) \( \text{In the Head of Serpentarius.} \) \( \text{Bright Star in the Harp, Lyra.} \) \( \text{Sirght Star in the Eagle, Atair.} \) \( \text{In the Mouth of the Southern} \) \( \text{Pifh, Fornalhaut.} \) \( \text{Pifh, Fornalhaut.} \) \( \text{Visual Sirght Star in the Eagle, Atair.} \) \( \text{In the Mouth of the Southern} \) \( \text{Visual Sirght Star in the Eagle, Atair.} \) \( \text{In the Mouth of the Southern} \) \( \text{Visual Sirght Star in the Eagle, Atair.} \) \( \text{In the Mouth of the Southern} \) \( \text{Visual Sirght Star in the Eagle, Atair.} \) \( \text{In the Mouth of the Southern} \) \( \text{Visual Sirght Star in the Eagle, Atair.} \) \( \text{In the Mouth of the Southern} \) \( \text{Visual Sirght Star in the Eagle, Atair.} \) \( \text{In the Mouth of the Southern} \) \( \text{Visual Sirght Star in the Eagle, Atair.} \) \( \text{In the Mouth of the Southern} \) \( \text{Visual Sirght Star in the Eagle, Atair.} \) \( \text{In the Mouth of the Southern} \) \( \text{Visual Sirght Star in the Eagle, Atair.} \) \( \text{In the Mouth of the Southern} \) \( \text{Visual Sirght Star in the Eagle, Atair.} \) \( \text{In the Mouth of the Southern} \) \( \text{Visual Sirght Star in the Eagle, Atair.} \) \( \text{In the Mouth of the Southern} \) \( Visual Sirght		10	15	4	35	15	20	16	8	31	10 5	2	
Crown.  In the Head of Serpentarius.  Bright Star in the Eagle, Atair.  In the Mouth of the Southern Fish, Formalbaut.  To the Mouth of the Southern Fish, Formalbaut.	The Bright Star in the Northern ?	1 0				1					-		
In the Head of Serpentarius.  Bright Star in the Harp, Lyra.  3r ght Star in the Eagle, Atair.  In the Mouth of the Southern } 7	Crown.		15	44	53	3	49	3	1-1	30	2 .	-	3
In the Head of Serpentarius.  Bright Star in the Harp, Lyra.  3r ght Star in the Eagle, Atair.  In the Mouth of the Southern } 7	Luc Coursian's House Account	1	-			-	-	. 0	-		** C	-	
Bright Star in the Harp, Lyra.       a 18 20 3 fets not 38 34 14 N 7         3rght Star in the Eagle, Atair, In the Mouth of the Southern Pith, Fornalhaut.       a 19 39 20 6 45 47 8 15 23 N 1 2         Pith, Fornalhaut.       a 22 44 39 2 51 37 30 50 27 8 2 1			0	15	13	3	34	28	25	53	59 5	1	
Bright Star in the Harp, Lyra.       a 18 20 3 fets not 38 34 14 N 7         3rght Star in the Eagle, Atair, In the Mouth of the Southern Pith, Fornalhaut.       a 19 39 20 6 45 47 8 15 23 N 1 2         Pith, Fornalhaut.       a 22 44 39 2 51 37 30 50 27 8 2 1			17	24	6	7	9	56	12	44	10 N	2	
In the Mouth of the Southern \ a 22 44 39 2 51 37 30 50 27 \$ 2 1	Bright Star in the Harp, Lyra.	a				fet	s n	ot	38	34	14 N	J	
In the Mouth of the Southern \ a 22 44 39 2 51 37 30 50 27 \$ 2 1	Jught Star in the Ragle Assis	a	70	20	20	6	4 6	45	8	TC	2 2 37	-	-
Fish, Fomalhaut.			19	39	20	-	45	4/	1	~ >	-3 44	-	-
2 till, 2 Olifelitatie.		a	22	44	20	2	51	27	130	50	27 \$	2	1
In the Wing of Regalite, Markab.   a   22 53 9 7 16 43 13 56 51 N 2					- 1		-						
	In the Wing of Pegalus, Markab.	a	22	53	9	17	16	43	113	56	51 N	2	

A Table of the Ecliples of Jupiter's first Satelles, reduced to correct or apparent Time, 1769. White.

1	-	4. 23.			-		Pare							T	22.00	
	-	ANU	-		-		RCH	-		API	-		-	Ju		
-	-	nin	rho	fis	-	Dillic	11,	ns	-	nine	rtio	-	-	me	riiot	
ı	d.	h.	m	1	d.	h.	m.	1.	d.	n	m.	1	d.	h.	m.	1.
	1.	-19	170	14	1	4	43	4	28	14	36	<b>3</b> 9	17.	6	3	12
1	3	13	44	45	2	2.3	11	48	30	9	5	20	19	0	31	33
ł	5	8	12	17	4	17	40	34		MA	v		20	18	59	54
ı	7	2.	39	50	6	12	9	23	1		11-11		22	13	28	15
ı	8	21	7	21	8	6	38	13	111				21	7	56	37
	10	15	34	59	iΘ	I	7	5	Z	3	34	10	26	2	25	0
1	12	10	2	34	H	19	35	57	3	22	3	1	27	20	53	24
1	14	7	30	12	13	14	4	50	5	16	31	43	29	15	21	49
	15	22	57	53	15	3	33	43	7	11	0	23		lu	LY	Ĩ-
	17	17	25	37	17	3	2	37	F	me	fior	S	F		hor	
ı	19	2 [	53	23	18	21	31	31	-				-		-	-
	21	6	2 [	11	20	16	.0	26	9	-7	36	46	I	9		14
	23	0	49	I	22	10	29	2 I	II	2	5	27	3	4	18	10
	24	19	16	53	24	4	58	16	12	20	34	8	4	22	47	7
	26	13	44	47	25	23	27	12	14	15	2	47	6	17	15	30
	28	8	12	44	27	17	56	9	16	9	31	25	8	11	44	7
	30	2	40	45	29	12	25	7	18	4	0	1	10	6	12	39
	31	21	8	49	31	6	54	6	19	22	28	36	12	0	41	12
	FI	BR	UA	RY		AP	RIL		21	16	57	8	13	19	9	46
	Li	nm-	rfio	ns.	Ti	nmé	rfio	ns.	23	II	25	38	15	13	38	22
	-			-					25	5	54	6	17	8	7	1
1	2	15	36	56	2	1	23	4	27	0	22	32	19	2	35	42
	4	10	5	4	3	19	52	1	28	18	50	59	20	21	4	25
		4	33	14	5	14	20	57	30	13	19	26	22	15	33	5
	7	23	1	26	7		49	53		Ju	NE		24	10	1 22	54
	9	17	29	40	9	3	18	49	E	mei	fior	S		4	30	40
	13	6	57 25	57	10	16	47	45				-	27	22	59	2
	15	0		17	14			40	i	7 2	47	53	29	17	28	10
	16	19	54	40	16	10	45	37	3			19	31	11	57	
	18	-	23			5	14	32	6	20	44	43	-	ug	บรา	- 1
	20	13	51	33	17	23	43 1:		8	15	13	26	F	mei	fior	S
	22	2	48		-	12		19	10	9	4.1		-	6	-	
1	23	21	, ,	34	21		41	11	11	4	9	47 8	2		25	5 8
	25		17			7	38	3		22	38		4	10	54	51
	27	15	45	41	25	20		55	13	17		20	5	10	23	46
		-10	14	23	30	20	_7_	47	1.5	-11	34	51	7.	13.	4.2	43

.

### A Table of the Eclipses of Jupiter's first Satelles, reduced to correct or apparent Time, 1769. White

August	· 'August	SEPTEMBER	Остовек
Emeritors	· Emertions	Emerfions	Emerions
d. h. m. f.	d h. m 1.	d. h. m. 1.	d. h m. f.
9 8 21 42	28 19 42 31	11 23 37 9	1(10 59 28
11 2 50 44	30 14 11 48	13 18 6 29	3 5 28 41
14 15 48 55	SEPTEMBER	15 12 35 48	4 23 57 53
16 10 18 4	Emeritons	17 7 5 7	8 12 56 0
18 4 47 15	1 8 41 7	20 20 2 46	10 7 25 16
19 23 16 26	3 3 10 27	22 14 33 5	12 1 54 22
21 17 45 38	4 21 39 47	24 0 2 24	13 20 23 37
23 12 14 50	6 16 9 8	26 3 31 42	15 14 52 30
25 6 44 3	8 10 38 29	27 22 0 59	36 2002 0
27 11 13 10	10 5 7 49	29 16 30 141	4. rear o

The Times of the Eclipses contained in this Table, are adapted to the Meridian of the Royal Observatory near London; and afford an excellent Method to discover the Longitude or Difference of Meridians, between that and any other Place whatsoever; which I shall illustrate by an Example.

Suppose on the 10th Day of October this Year, the Time of the Impersion of Jupiter's first Satelles, be observed (by a Telescope) in an unknown Meridian, to happen at 20min. 20sec. after 10 at Night: I find by the Table, that the Time of this Emersion will be (at the British Observatory) at 25 min. 16sec. after 7 the same Night: The Difference of the Times is 3 hours 4 min. 4sec. which being converted into Deg. and Min. of the Equator, will make 46deg. Imin. the Longitude of the Place of Observation to the East; because the Time is more than that at the British Observatory.

A Table of the Times	of High-Water at	London-Bridge, in
the Morning and	Asternoon of every	
1769.		White.

Mo.	[J4	NU	A R	Υ.	IZ	FE	BR	U A	ŖY.	13		MA	RCH		M		AP	RII	
10	M	orn.	Air	ern.	15	Mo	rn.	Aft	rn.	0	M	orn.	Alt	ein.	10	M	orn	AIL	ern.
Daysla	h.	m.	h.	m.	Days	h.	m	h.	m.	÷	h.	m.		DA+	dys	h.	m.	10.	m
100	3	- 1	_	28	5	-		-	20		7	25	-	56	2	-	9	9	42
2	8		899	27	2	9	7	9	39	2	7	28	7	2	A	10	14	0	45
	9	55 58	10	29	3	11	16	11	48	3	9	36	10	10	3	II	1	II	45
3 4	11	0	11	31	4			0	21	4	10	44	LI	37	4			0	15
			0	3-	A	0	48	I	15	A	11	50		- =	5	0	42	T	9
5	0	31	0		6	I	41	2	7	6	0	18	Q	46	6	T	36	2	4
	1	26	1	59 54		2	29	2	51		1	II	1	27		2	29	2	54
A A	2	17	2	40	7	3	2	3	23	7	2	3	2	37	7	3	14	3	33
9	2	57	3	15		3	38	3	54	9	2	48	3	7	A	3	53	4	12
10	3	31	3	47	9	4	11	4	29	10		24	3	41	10	4	36	5	1
11	-		-	16	13	4	48	-	-8	11	3	58	4	16	11	-	26	-	
12	4	34	4	52	A		31	5		A	4	20	5	1	12	5	22	5	52
	5	12	4 5		13	5	25	5	55 55	13		39	2	51				7	57
13	5	54	6	37	14	7	30	8	5	14	5	. 22	5	54	13 14	7	25	6	3/
A	6	45	7	12	15	8	43	9	21	15	7	27	8	3	15	9	32	10	4
16	-	45	8	28	15	10	0	10	-	16	3	-	9	14	A	10		11	-
	8	57	9	36	23	11	15	11	39	17	9	37	10	24	1	II	34	II	3
17	10	15	10	54	18		. 3	0	51	18	10	57	11	30	17	•	32	0	58
19	11	11		54	A	0	52	I	16	A	II	49 57 58		3.	19	0	47	ĭ	70
20	0	TI	0	42	20	1	41	2	5	20	0	26	0	58	20	1	33	I	56
21	1	7.4	-	_	-	2	_	-	-	21	ī	16	-	38	2.3	2	-	-	
A	2	14	2	42	2 I 22	3	29	2	47	22	2	0	2	21	22	2	19	2	37
23	2	57	3	34	23	3	32	3	46	23	_	41	2	57	A	3	55 26	3	42
24	3	29	3	43	24	3	59	4	15	24	3	12	3	27	24	3	57	4	14
25	3	57	4	12	25	4	31	4	49	25		42	3	55	25	4	32	4	-51
26	4	28			A	5	6	5	-	A	4	-	4	27	26	5	10	5	-
27	5	2	4 5	45		5	44	6	25	27	4	45	5		27		52	6	31
28			5	57	27 28	5	33	6	59	28		23	5	47	28	5	42		7
A	5	35	6	43			23		39	29	6	- 11	6	3.7	29	7	33	7 8	4
30	7	8		35			-			30		4	7	33	A	8	35	9	7
31	7 8	3	7	35	1			10		31	. 7	3	7 8	33		1	• 5	1	1
-								-	_			-			-		-	-	

This Table may ferve the following Places, by adding,

For	Tinmouth-Haven, Hartlepool, and	Amsterdam o	
	Brest		
	Scilly		
	Mount's Bay		55
	Bridlington Pier and Humber		O

A Table of the Times of High-Water at London-Bridge, in the Morning and Afternoon of every Day in the Year 1769.

3	1	M	AY	i	Jυ	NE.	Z	1	Ju	LY.	-	Mo	. 2	100	11 8	т.			
2	M	orn.	Af	ern.	Mo. D	M	orn.	. 4 6	ern	10		orn.	-	cer	0	8.4	orn	A 14	ern.
Mo. Days	h.	m.	h.	m.	ays	h.	m.	h.	m.	tys	h.	m.	h.	in	y 3	h.	m.	h.	me
			10	:0	-	-	10	ii	-	1	-				-	-			
1 3	1 2	39	II	12	1 2	LI	*	0	46	A	II O	26	1	-	2	(I	24	2	54
2		45			1	0	5:	i	28		1	31	2	7	4 .	3	19		44
3	1	15	0	45	A A	2	3.	2	33	3	2	37	3	3	3	3	35	3	50
4		14		42	-	2	51	3	19	1	3	22	3	41	5	4	35	4	20
5	2	14	2	46	6	-	-	-	-	5	-		4	13	A	4	38		-
A	3		3	28	1	3 4	38	3 4	57 39	1	3	57 31	4	50		5	12	4 5	55 29
8	3	48	4	8	8	4			19	7 8	5	38		26	7 8		51	6	13
9	4	31	4	55	9		59 40	5	2	A	5	46	5	6	9	5	38	7	3
Ic		19	5	43	10	5	26	6	50	10	6	29	6	5.	10	7	31	7	59
111	6	10	6	37	A	-	-	11	-	17	7	43	11	8	31	9	4		
12		4		31	12	7 8	7	7 8	40 34	12	7 8	11	78	40	1.	9	38	10	12
13		1	7	30	13	9	3	9	32	13	9	11	9	42	A	10	45	II	18
A	9	0	9	29	14	10	3	10	30	14	10	12	10	4=	14	11	46		
14		57	10	24	I.	CI	c.	II	30	15	II	15	11	47	15	0	15	0	41
16	10	51	II	18	16	11	57	-		A	-		0	16	10	1	7	1	31
		45			17	0	2:	0	51	17	0	45	ī	10	17	I	54	2	17
17	0	12	0	36	Á	1	17	1	42	18	1	35	T	59	18	2	39	2	57
19	1	0	I	24	19	2	7	2	29	Eg	2	24	2	42	19	3	15	3	30
20	I	48	2	12	20	2	51	3	8	20	3	1	3	16	A	3	44	4	0
A	2	35	2	53	21	3	24	21	3	32	3	46	21	4	16	4	36		
22	3	11	3	27	22	3	53	3	39	22	4	30	4	17	22	4	<b>5</b> 5		18
23	3	43	3	58	23	4	24	4	42	A	4	33	4	52	23	5	40	5	
24	4	13	4	32	24	4	5.9	5	17	24	5	11	5	32	24	6	35	78	7 8
25	4	51	5	9	A	5	34	5	58	21	5	53	6	19	25	7	40	8	19
26	5	26	5	48	26	6	2)	6	47	26	6	46	7	16	26	8	58	9	39
27	5	10	5	34	27	7	I 2	7	42	27	7	46	8	2 ;	A	10	19	IÓ	56
A	6	59	7	25	28	7 8	13	8	47	28	9	7	9	41	28	11	33		- 1
29	7	51	8	22	29	9	21	9	59	29	10	21	11	1	29	0	5	0	36
30	9	53	9	28	30	10	38	II	17	P.	11	42		7	30	1	4	1	32
31/10 3/10 37/ / /3											0	18	0	53	31	1	57	2	21
									Add	ing		K	1			h	.   n	2.	

Adding.	h. m.
For Fowey, Loo, and Plymouth	3 10
Dartmouth, Harborough, and Hull	3 30
Torbay and Tinmouth	3 40
Exmouth, Topsham, and Lime	3 50
Weymouth — — — —	4 25
Bridgwater and Texel	4 40
Portland and Hartflew — — — —	5 - 50

A Table of the Times of High-Water at London-Bridge, in the Morning and Afternoon of every Day in the Year 1759.

SI SEPTEMB. (Z OCTOBER,   ZINO																		AA II	ince.	
-	N	31	PT	E M	P.	Z.	00	TO	No	VE 1	M B E	R	30.	D E	CER	M B I	R			
	-	M	org.	1112	cin	0.0	Mo	m.	Ait	ern.	Mo. D	Mo	rn da	Aft	ern'	C	Mo	rn.	Aft	ern.
	· LOY	h.	m.	h.	m		h.		h.	m	ays	h.	m.	h.	m.	3 4 5	h.	m.	h.	m.
۱		- 2	40	3	59	A	2	56	3	12	-	3	44	3	59	-	3	53	4	- 7
١	2	3	14	3	30	2	3	28	3	44	2	4	16	4	33	2	4	25	4	43
1	A	3	44	3	59	13	3	59	4	14	3	4	51	5	10	A	5	0	5	18
-	4	4	15	4	32	4	4	33	4	53	4	5	30	5	51	4	5	37	5	56
	5	4	50	5	7	- 5	5	10	5	30	A	6	14	6	38	-<	6	20	6	43
1	6	5	28	5	48	6	5	54	6	17	6	7	56	7 8	28	6	7	(	7.	28
1	7	6	13	6	39	7		43 38	7 8	9	8	7 8	56	8	25	7 8	7	58		28
	8 7 6 7 33 A 7 38 8 7 8 8 56 9 27 8 9 0 9 37 8 9 8 9 9 57 10 28 9 10 5 10 39																			
1	0 8 4 8 35 9 8 37 9 8 9 9 57 10 28 9 10 5 10 39 A 9 9 9 39 10 11 10 10 59 11 30 A 11 15 11 52																			
	The same of the sa																			
	73,00																			
	12 11 14 11 45 12 11 40 A O 31 1 1 12 1 C 1 32																			
	14	0	38	I	3	14	A	- 3	1	28	14	2	31	2	54	14	3	0	3	21
1	15	1	28	T	53	A	I	54	2	20	15	3	16	3	37	15	2	41	3	59
j	16	2	19	2	39	16	2	46	3	6	15	3	57	4	20	16	4	18	4	39
	A	2	59	3	16	17	3	26	3	44	17	4	43	5	5	A	4	59	5	21
1	18	3	33	3	50	18	4	3	4	26	18		27	5	52	18	5	42		5
ı	19	4	7	4	29	19	4	49	5	14	A	6	18	6	46	19	1	28	6	.52
i	20	4	51	5	16	20	_5_	40	6	10	20	7	14	7	43	20	7	16	7	43
	21	5	40	6	9	23	6	39	8	11	2 ]	8	10	8	39	21	8	10	8	39
	22	7	39 45	7 8	12	A 23	3	42		14		9	9	10	39	22	9	8	9	38
4	23 A	9	40	9	36	24	9	52	9	19		II	7	11	35	A	10	9	II	40
	25	10	111	10	44	25	10	52	II	22	1		_ ′	10	2	25			0	10
	26	11	18	11	48	26	II	51		-	A	0	27	0	52	126	0	36	1	
	27			0	18	27	0	16	0	43	27	1	16	1	41	27	1	24	1	50
	28	0	43	I	9	28	1	5	I	28		2	6	2	31	28	2	14	2	37
1	29	1	33	T	56	A	I	50	2	13	29	2	49	3	6	29	2	53	3	9
	30	2	18	2	40	30	2	34	2	55	30	3	23	+ 3	39	30	3	2	3	43
						31	3	12	1 3	28	· L	-	19	:		A	1 3	55	14	8
							J	S	ubtr	act.								h.	n	
			r L				, an				Gi							- 0	5	
			rave							Ran	me	kin	5 -	1	-	-		- I	20	
					he N							:			-	-		- I	3€	
		30	TEIT	nou	th,	Uit	end.	, Sh	oe-l	secol	n,	and	Ked	-San	d	-		- 2	0	

Subtract.		1110
For Leigh, Maes, and Gouries Gut	0	15
Gravelend, Rochester, and Rammekins		20
Buoy of the Nore and Flushing	1	30
Portsmouth, Ostend, Shoe-Becon, and Red-Sand		0
Harwich, Dover, Spithead, and Calais	3	O'
Gunfleet, Hastings, Shoreham, Orfordness, and Diep -		0
Yarmouth Pier and Needle	4	40
St. Helen's and Havre-de-Grace	5	30

A Table of the Sun's femi-diurnal Arches, or Times of his visible half Tarriance above the Horizon. White,

				North.

6 Lat. 49 Lat. 50   Lat. 51   Lat. 52   Lat. 53   Lat. 54													
Degr.	Lat	:49	Lat.	. 50	Lat	. 51	Lat.	. 52	Lat.	53	Lat	. 54	
00	-	-	-				-		-			-	
1 -	h.	,m.	h.	m.	h.	m.	h	m.	h.	m.	h.	m.	
0	6	4	6	4	6	4	6	4	6	4	6	4	
1	6	8	6	4 8	6	4 8	- 6	9	6	9	6	9	
2	6	1.2	6	13	. 6	13	6	14	6	14	6	15	
3	6.	17	6	13	-6	18	6	19	6	19	6	29	
4	6	22	6	22	6	22	6	24	6	25	6	25	
3 4 56	6	26	6.	27	6	21	6	29	6	30	6	31	
6	6	31	6	32	6	33	6	,34	6	36	6	37	
	6	36	6	37	.6	33 38	6	40	6	41	6	43	
7 8	6.	41	6	42.	6	43	6	45	6	47	6	48	
9	6	45	6	47	-6	43 48	6	150	6	52	6	54	
10	6	50	6	52	6	54	6	56	6	58	7	0	
11	6	55	6	57	6	59	7	11	7	3	7	6	
12	7	0	7	2	7	4	7	- 7	7	9	-7	12	
13	7	5	7	7.	7	10	7	12.	7	15	7	18	
14	7	10	7	13	7	15	7	18	7	21	7	24	
14 15 16	7	15	7	13	.7	21	7.	24	7	27	7	31	
16	7	15	7	24	7	27.	7	30	7	33	7	37	
17	7	26	7	29	17		7	36	7	40	7	37	
18	7	31	7	35	7	33 38	7	42	7	46	7	51	
19	7.	37	7	41	-7	45	7.	49	7	53	7	58	
20	7	43	7	47	7.	51	7	155-	8	0	8	5	
21	7	49	7	53		57	7 8	2	8	7	8	12	
22		55	7 8	59	7 8	4	-8	16	8	14	8	20	
23	7 8 8	1		6	8	11	8	16	8	22	8	28	
24	8	7	8	12	8	18	8	24	8	30	8	36	
R	the	G To	Islan	chor	Cime	06	ha C	ne.20	D:Gn	0 00	d Cos	eina	

By these Tables the Times of the Sun's Rising and Setting may be found, in any Part of the Kingdom of Great-Britain or Ireland, after the following Manner: Where the Latitude of the Place is known, take the Sun's Declination out of the Table, on the Noon of the Day you desire to know the Time of his Rising and Setting; and with it, according as it is either North or South, enter these Tables in the

Left-

A Table of the Sun's femi-diurnal Arches, or Times of his visible half Tarriance above the Horizon. White.

The Sun's Declination South.													
D	Lat.	49	Lat	. 50	Lat	. 51	Late	. 52	Lat	- 53	Lat	- 54	
Degr.	h.	m.	h.	m.	h.	m.	h.	m.	h.	m.	h.	m.	
0	6	4	6	4	6	4	6	4	6	1	0	4	
	5	59	5	59	5	58	Į.	58	5	58	-5	58	
2	5	54	5	54	5	53	5	53		53	5	53	
3	5	49	5	49	5	49	5	48	5	53	5	47	
4	5	45	5	44	5	44	5	43	5	42	5	42	
5	-	40	5	39	5	39		38	5	37	5	36	
5	5	35	5	35	5	34	5	33	5	31	Ś	30	
7 8	5	31	5	30	5	29	5	27	5	26	5	25	
8	5	26	5	25	5	23	5	22	5	21	5	19	
9	5	21	5	20	5	18	5	17	5	16	5	19	
10	5	17	5	15	5	13	5	11	5	10	5	8	
11	5	12	5	10	5	13	5 5 5	. 6	5	4	5	2	
12	5	7	5	5	5	3	5	0	4	58	4	56	
13	5	2	5	0	4	57	4	55	4	52	4	50	
14	4	57	4	54	4	52	4	49	.4	47	4	44	
15	4	52	4	49	4	46	4	44	4	41	4	37	
	4	46	.4	45 38	4	41	4	38	4	34	4	37 31	
17	4	41	4		4	35	4	22	4	28	4	23	
18	4	36	4	33	4	29	. 4	26	4	22	4	18	
19	4	30	4	27	4	23	4	19	4	15	4	11	
20	4	25	4	21	4	17	4	13	4	9	4	4	
21	4	19	4	15	4	11	4		4	2	3	4 57	
22	4	13	4	9 3 56	4	4 58 51	4	0	3	55	3	50	
23	4	7	4 3	3	3	58	3	53	3	47	3	42	
24	4	1	3	50	3	51	1 3	46	3	40	3	.34	

Left hand Column, under the Word Degrees; then look the Latitude of the Place in the Top of the Table; and in that Column, against the Sun's Declination, will be found the Time of his visible half Tarriance above the Horizon, or Time of his Setting, correct by Refraction; then subtract the Time of his Setting from 12 Hours, the Remainder will be the Time of his Rising; double the Time of his Setting.

A Table of the Sun's femi-diurnal Arches, or Times of his visible half Tarriance above the Horizon. White.

		North.

The Sun's Destination Postin.												
Degr.	Lat	55	Lat.	56	Lat.	57	Lat	. 58	Lat.	59	Lac	60
	h.	m.	h.	m.	h.	m.	h.	m.	iı.	m	h.	m.
0	6	4	6	4	6	4	6	4	5	4	6	4
1	6	9	6	10	6	10	6	10	6	II	6	111
12	6	15	6	16	6	16	6	17		17	6	18
3	6	21	6	22	6	22	6	23	6	24	6	25
4	6	27	6	22 28	6	29	6	30	6	31	6	32
3 4 5 6	6	22	6	34	6	35 41	6	36	6	38	6	
6	6	38	6	40	6	41	6	43	6	44	6	39 46
7 8	6	44	6	46	6	48	6	49	6	51	6	53
8	6	50	6	52	6	54	6	56	6	58	7	I
9 10	6	56	6	52 58	7	- i	7	3	7	5	7	8
10	7		7	-	7	7	7	10	7	13	7	16
11	7 7	2 &	7	10	7	14	7	17	7	20	7	23
12		15	7	18	7	21	7	34	7	27	7	31 39
13	7 7	21	7	24	7	28	7	31	7		7	39
13 14 15 16	7	15 21 28	7	31	7	35	7	39	7	35 43 51 59 7 16	7	47
15	7		7	39	7	42	7	46	7	51	7	56 4
16	7	34 41	7	45	7	49		54		59	7 8 8 8 8	4
17	77	48		52	7	57	7 8	i	7 8	7	8	13
	7 8	55	7 8 8	52	7 7 8 8	5	8	10	8	16	8	22
19	8	. 2	8	7	8	5 13	8	19	8	25		32
20	8	10	8	7 15 24	8	21	8	28	8	35	8	44
21	8	18	8	24	8	30	8	37	8	45		59
22	8	26	8	22	8 8	39	8	47	8	55	9	2
23	8	34	8	41	8	49	8	57	9	55	9	13
24	8	43	8	51	8	59	9	57 8	9	18	9	29
the Sum will be the Tongth of the Day, and double the Time												

the Sum will be the Length of the Day; and double the Time of his Rising, the Sum will be the Length of the Night. But if the Latitude of the Place, and Declination of the Sun, consist of Degrees and Minutes, then a small Allowance must be made for the Minutes in both Cases, which may be done by a Person of an ordinary Capacity by a mental Proportion only. Thus, to find the Time of the Sun's Rising and Setting

A Table of the Sun's femi-diurnal Arches, or Times of the visible buf Tarriance above the Horizon. The Sun's Declination South.

D	Lat.	55	Lat.	56	Lat.	57	Lat	. 58	Lat	. 59	Lat	.60
Degr.	h.	m.	h.	m.	h.	m.	h.	m.	h.	m.	h.	m.
-0	6	4	6	4	6	4	6	4	6	4	6	4
1	5	58	5	58	5	58	5	58	5	57	- 5	57
2	5	52	5	52	5	52	5	5 I	5	51	5	50
3	5	47	5	46	5	45	.5	45.	5	44	5	43
4	5	41	5_	40	5	39	5	38	5	3-7	5	36
5 6	5	35	5	34	5	33	5	32	5	31	5	29
6	5	29	5	23	5	27	5	25	5	24	5	22
7 8	5	23	5	22	5	20	5	19	5	17	5	15
8	5	17	5	16	5	14	5	12	5	10	5	
9	5	12	5	10	5	8	5	5	5	3	5	2
10	1 5	5	5	3	5	I	4	59	4	56	4	53
11	1 4	59	4	57	4	54	4	52	4	49	4	46
12	4	53	4	51	4	48	4	45	4	42	4	38

 46

 II

at Aberdeen in Scotland, on the Longest Day, the Latitude of that Place is accounted 57 Deg. 7 Min. North, and the Sun's Declination 23 Deg. 20 Min. likewise North. By these you will find by the Table, that 4 Min. for the Sun's Decl nation, and I Min. for the Lititude of the Place, are both to be added to 8 Hours so Min. the Time belonging to 57 Deg. of Latitude and 23 Deg. of North Declination, and the Sum will be 8 Hours 55 Min. the Time of his apparent Setting at Averdeen, on the longest Day, whose Complement to 12 Hours, v.z. 3 Hours 5 Min. will be the Time of his Rifing, &c.

A Table of the Sun's right Ascention in Time, exactly calculated according to the greatest Obliquity of the Ecliptic 23deg. 29m.

-						
Devi	Y	1 8	П	25	25	- rg
15	h. m. f.	h. n. i	h. m. f	h m. i.	h. m. f.	h. m. f
0	0 0 0	I 51 37	3 51 14	600	8 8 46	10 8 23
T	0 3 40	1.55 26	3 55 25	6 4 22	8 12 55	10 12,12
2	0 7 20	1 59 16	3 00 2"	6 8 47	8 17 4	10 16 1
3	0 11 0	2 3 7	4 3 47	6 13 5	8 21 12	10 19 49
4	0 14 41		4 7 59	6 17 26	8 25 20	10 23 36
5	0 18 21	2 10 10	4 12 12	6 21 48	8 29 26	ED 27 23
6	0 22 2	2 14 43	4 16 2	6 26 9	8 33 32	10 31 9
7 8	0 25 42	2 18 36	4 20 40	6 30 30	8 37 38	10 34 55
8	0 29 27	2 22 20	4 24 54	6 34 5 Y	8 41 42	10 38 40
9	0 33 4	2 26 24	4 29 9	6 39 11	8 45 46	10 42 25
10	0 36 45	2 30 20	4 33 25	6 43 32	8 49 49	10 46 10
3.7	0 40 26	2 34 6	4 37 41	6 47 52	8 53 52	10 49 54
12	0 44 8	2 38 12	4 41 58	6 52 12	8 57 53	10 53 37
13	0 47 49	2 42 9	.4 46 16	6 56 31	9 I 54	10 57 21
34	0 51 31	2 46 8	4 50 33	700	9 5 54	11 1 4
15	0 55 14	2 50 6	4 54 51	7 5 9	9 9 54	11 4 46
16	0 58 56	2 54 6	4 59 10	7 9 27	9 13 52	11 8 29
17	1 2 39		5 3 29	7 13 44	9 17 51	II 12 11
18	I 6 23	3 2 7	5 7 48	7 18 2	9 21 48	11 15 52
19	1 10 6	-	5 12 8	7 22 19	9 25 44	11 19 35
20	1 13 50	3 10 71	5 16 28	7 26 35	9 29 40	11 23 15
21	1 17 35	3 14 14	5 20 49	7 30 51	9 33 36	11 26 56
22	1 21 20	3 18 18	5 25 9	7 35 6	9 37 30	11 30 37
33	-		5 29 30	7 39 20		-
24	· 1 28 51	3 26 28	5 33 51	7 43 35	9 45 17	11 37 58
26	I 32 37	3 30 34	5 38 12	7 47 48	9 49 10	11 41 39
-	-	3 34 40	-	-		
27	1 40 11	3 38 48	5 46 55	7 56 13	9 56 53	11 49 0
28	I 43 59	3 42 56	5 51 17	8 0 25	10 0 44	11 52 40
29		3 47 5	-			
	1 51 17	3 7 14	600	8 8 46	10 8 23	12 0 0

#### ADVERTISEMENT.

THE Author of this Ephemeris, desires all those who shail favour him with their Letters, especially concerning Points of Curiosity, to pay the Postage; if not, their Letters will be return'd unanswered.

A Table of the Sun's right Ascention in Time, exactly calculated according to the greatest Obliquity of the Ecliptic 23 deg. 29 min.

The man   The	Ide	lated according to the Erecta Confession							
12   0   0   13   51   37   15   51   14   18   0   0   20   8   46   22   8   23   23   12   12   13   55   65   15   52   52   18   8   4   22   20   12   55   52   12   12   12   13   59   16   15   55   25   18   8   4   20   17   4   41   14   6   68   7   59   18   17   26   20   25   20   22   23   36   5   12   18   21   14   10   50   16   12   12   18   21   23   20   21   22   23   36   5   12   22   14   18   36   16   20   40   18   30   30   20   37   38   22   31   9   12   23   4   43   20   20   20   33   32   22   31   9   12   23   4   4   20   24   4   36   16   20   40   18   30   30   20   37   38   22   33   4   4   20   20   40   18   30   30   20   37   38   22   33   4   4   20   24   16   29   18   39   11   20   45   46   22   43   43   40   12   40   26   14   34   16   16   25   18   26   33   25   18   43   32   20   49   49   22   24   36   11   12   24   24   38   12   16   45   16   16   37   41   18   47   52   20   57   53   22   24   6   10   12   24   34   42   34   45   44   38   16   45   6   6   6   6   6   6   6   6   6	D	, ==	m	1	vy	, 222	×		
12   0   0   13   51   37   15   51   14   18   0   0   20   8   46   22   8   23   23   12   12   13   55   65   15   52   52   18   8   4   22   20   12   55   52   12   12   12   13   59   16   15   55   25   18   8   4   20   17   4   41   14   6   68   7   59   18   17   26   20   25   20   22   23   36   5   12   18   21   14   10   50   16   12   12   18   21   23   20   21   22   23   36   5   12   22   14   18   36   16   20   40   18   30   30   20   37   38   22   31   9   12   23   4   43   20   20   20   33   32   22   31   9   12   23   4   4   20   24   4   36   16   20   40   18   30   30   20   37   38   22   33   4   4   20   20   40   18   30   30   20   37   38   22   33   4   4   20   24   16   29   18   39   11   20   45   46   22   43   43   40   12   40   26   14   34   16   16   25   18   26   33   25   18   43   32   20   49   49   22   24   36   11   12   24   24   38   12   16   45   16   16   37   41   18   47   52   20   57   53   22   24   6   10   12   24   34   42   34   45   44   38   16   45   6   6   6   6   6   6   6   6   6	120	h. m. f.	h. m. f.	h. m. f.	h: m: f.	h. mf.	h. m. f.		
1	-	12 0 0	12 ST 27	15 51 14	18. 0 .0	20 8 46	22' 8 22		
12   12   7   20   13   59   16   15   59   35   18   8   43   20   17   4   22   16   16   16   34   7   18   17   26   20   25   27   27   27   20   20   20   33   32   22   33   9   9   18   20   20   33   32   22   33   9   9   18   30   30   20   37   38   22   34   55   35   34   34   30   20   33   35   35   35   35   35   35   3							- 3		
4         12 14 41         14 6 68         16 7 59         18 17 26 20 25 20         22 23 36         22 27 23           6         12 18 21         14 10 50         16 12 12         18 21 48 20 29 26         22 27 23         22 27 23         22 24 27 23         22 24 28 29 29         16 16 25 18 26 9         20 33 32 22 37 38         22 24 27 23         22 31 9         22 23 36 40         18 30 30 20 20 37 38         22 24 38 40         22 24 38 40         22 24 38 40         22 24 38 40         22 24 28 38 40         22 24 28 38 40         22 24 28 38 40         22 24 28 38 40         22 24 28 38 40         22 24 28 38 40         22 24 28 38 40         22 24 28 38 40         22 24 28 38 40         22 24 28 38 40         22 24 28 38 40         22 24 28 38 40         22 24 28 38 40         22 24 28 38 40         22 24 49 49 22 46 10         22 46 10         22 24 28 38 40         22 24 28 38 40         22 24 38 40 <td< td=""><td>2</td><td></td><td>0 00 0</td><td></td><td>18 8 43</td><td>20 17 4</td><td>22.16 1</td></td<>	2		0 00 0		18 8 43	20 17 4	22.16 1		
12	3	IZ JI O	14 3 7	16 3 47	18 13 5	20 21 12	22 10 40		
6         12         22         14         14         43         16         16         25         18         26         9         20         33         32         22         31         9           8         12         29         23         14         28         24         16         20         40         18         30         30         20         37         38         22         34         55           9         12         33         4         14         20         24         16         29         9         18         39         11         20         45         46         22         48         40           11         12         40         26         14         34         16         23         21         18         31         32         20         49         49         22         46         10         33         25         18         43         32         20         49         49         22         46         10         33         25         18         43         32         20         49         49         22         42         42         25         11         14		12 14 41	14 6 68			20 25 20			
7	5	12 18 21	14 10 50	16 12 12	18 21 48	20 29 26	22 27 23		
12 20 23	6	I2 22 2	14 14 43	16 16 25	18 26 9	20 33 32	22 31 9		
9 12 33 4 14 26 24 16 29 9 18 39 11 20 45 46 22 42 25 12 36 45 11 12 40 26 14 34 16 16 37 41 18 47 52 20 53 52 22 49 54 12 12 44 8 14 38 12 16 46 16 18 56 31 11 54 22 57 81 14 42 9 16 46 16 18 56 31 21 1 54 22 57 81 14 50 16 54 51 19 5 9 11 54 22 57 81 14 50 16 54 51 19 5 9 11 54 23 1 4 45 11 17 18 20 17 51 23 1 1 1 54 23 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 7	12 25 42	14 18 36				3: 37		
10	8	12 29 23	14 22 30	16 24 54	18 34 51	20 41 42	22 38 40		
11			14 26 24	1 - / /		20 45 46			
12   14   48   14   38   12   16   41   58   18   52   12   20   57   53   22   53   37     13   12   47   49   14   42   9   16   46   18   56   31   21   1   54   22   57   21     14   12   51   31   14   46   8   16   50   33   19   0   50     15   12   58   56   14   54   6   16   59   10   19   9   27   21   13   52   23   8   29     17   13   2   39   14   48   6   16   59   10   19   9   27   21   13   52   23   8   29     19   13   10   6   15   6   8   17   12   8   19   22   19   54   23   12   11     18   13   13   50   15   16   11   17   17   28   19   21   25   24   23   23   15     20   13   13   50   15   14   14   17   15   28   19   26   35   21   29   40   23   23   15     21   13   13   23   15   15   14   14   17   25   9   19   35   6   21   37   30   32   33   37     23   13   25   5   15   22   22   17   29   30   19   39   50   21   37   30   32   33   37     24   13   28   51   15   26   28   17   29   30   19   39   20   21   41   24   23   34   18     25   13   32   37   35   40   40   40   40   40   40   40   4	1			1 10 33					
13	111	12 40 20	-	-	-	20 53 52	22 49 54		
14         12         13         14         46         8         16         50         33         19         0         50         21         5         44         23         1         4         6         16         50         19         9         21         5         44         23         1         4         6         16         50         19         9         27         21         9         54         23         4         46         16         59         10         19         9         27         21         13         52         23         8         29         21         13         14         46         17         3         20         19         13         44         21         17         51         23         18         19         18         21         21         21         23         8         29         19         31         44         21         17         51         23         12         11         17         17         7         48         19         18         21         21         22         44         23         19         34         21         25         44         23         19						1 3, 33	15.31		
15		1 11 12			9 9	7.1			
16     12     58     56     14     54     6     16     59     10     19     9     27     21     13     52     23     8     29       17     13     2     39     14     48     6     17     3     20     19     13     44     21     17     51     23     12     11       18     13     10     6     15     6     8     17     12     8     19     22     12     24     23     13     15     16     11     17     16     28     19     26     35     21     29     40     23     23     15     30     34     17     25     9     19     35     6     21     23     30     37       23     13     25     15     22     22     17     29     30     19     39     51     21     23     30     23     26     56       24     13     28     51     15     26     28     17     33     51     19     33     52     14     24     23     23     36     56       25     13     32     27     17 <t< td=""><td>-</td><td>-</td><td>-</td><td></td><td></td><td>-</td><td>-</td></t<>	-	-	-			-	-		
17		2 2 2 3	1 3	3 31 1-		1			
18			1 - 1 - 3 -	3 33		3 3	-		
19	1 -0	-	-		-	1	-		
20									
21		, , , , ,		1 - /					
22	-	-			-	-			
23     13     25     5     15     22     22     17     29     30     19     39     20     21     41     24     23     34     18       25     13     32     37     15     30     34     17     38     12     19     43     35     21     45     17     23     37     58       26     13     36     24     15     34     40     17     42     34     19     52     1     21     23     23     45     19       27     13     40     11     15     38     48     17     74     55     19     56     13     21     56     53     23     34     69     22       28     13     47     48     15     47     51     75     71     20     0     25     22     0     44     23     54     20       29     13     47     48     15     47     51     75     38     20     4     35     22     4     34     23     56     20						1 00 0			
24 13 28 51 15 26 28 17 33 57 19 43 35 21 45 17 23 37 58 26 13 36 24 15 30 34 17 38 12 19 47 48 21 49 10 23 41 39 26 13 36 24 15 34 40 17 42 44 19 52 1 21 53 2 23 45 19 27 13 40 11 15 38 48 17 46 55 19 56 13 21 56 53 2 33 49 0 28 13 43 59 15 42 56 17 51 77 20 0 25 22 0 44 23 52 40 29 13 47 48 15 47 5 17 55 38 20 4 35 22 4 34 23 56 20					7 33	31 3-1			
25 13 32 37 15 30 34 17 38 12 19 47 48 21 49 10 23 41 39 26 13 36 24 15 34 40 17 42 34 19 52 1 21 53 2 23 45 19 27 13 40 11 15 38 48 17 46 55 19 56 13 21 56 53 23 49 0 28 13 43 59 15 42 56 17 51 17 20 0 25 22 0 44 23 52 40 29 13 47 48 15 47 5 17 55 38 20 4 35 22 4 34 23 56 20	-	-		-		-	-		
26									
27 13 40 11 15 38 48 17 46 55 19 56 13 21 56 53 23 49 0 28 13 43 59 15 42 56 17 51 17 20 0 25 22 0 44 23 52 40 29 13 47 48 15 47 5 17 55 38 20 4 35 22 4 34 23 56 20									
28 13 43 59 15 42 56 17 51 17 20 0 25 22 0 44 23 52 40 29 13 47 48 15 47 5 17 55 38 20 4 35 22 4 34 23 56 20	27	13 40 II	15 38 48		10 56 12	-	-		
29 13 47 48 15 47 5 17 55 38 20 4 35 22 4 34 23 56 20									
30 13 51 37 15 51 14 18 0 0 20 8 46 22 8 23 24 0 0	29	13 47 48							
	30	13 51 37	15 51 14	18 0 0	20 8 46	22 8 23	24 0 0		

# The Use of the Table of the fixed Stars, and of the Sun's right Ascension in Time.

HE Time of the Southing or Meridian Transits of the tabulated fixed Stars may be very exactly found after this Manner:

On the Noon of the Day, preceding the Night, in which you define to know the Time of the Southing of any of these Stars, find by the EPHEMERIS the Sun's Place, and with it take out of the Table his right Ascension in Time. This you may do to a Minute by Inspection, which will be sufficient for your present Purpose: Then from the right Ascension of the Star, as it is placed in the Table, subtract the right Ascenfion of the Sun, the Remainder will be the estimate Time of the Stars Southing, and will not differ from the true Time above two or three Minutes at farthest, which may be near enough for ordinary Ules: But if Exactness is required, then reduce the Sun's Place to this estimate Time, and take out of the Table his right Ascension in Hours, Minutes and Seconds. and Subtract it from that of the Star, the remaining Numbers will shew the true Time of the Star's Culmination or Southing. And if from the Time of the Stars Southing you subtract the femi-diurnal Arch belonging to it, the Remainder will be the Time of the Star's visible Rising; and being added to it, the Sum will be the Time of its visible Setting.

EXAMPLE of Arcturus, May 17th this	Year.			
Place of the Sun at Noon	-	g	26	43
Right Ascension of Arcturus	_	h.	m 5	3
Right Attention of the Sun febtract Estimate Time of the Stat's Southing	_	3	37	38
Right Ascension of the Son at that T me subtract  True T me of the Star's Southing	-	3	39	2.5
Semidiurnal Arch Subtract and add	_	7	56	47
True Time of the Star's Vifible Rifing Altern. — — True Time of the Star's vifible Setting next Morning.		6	29	34

# By J. R O E in Derby, and S. R O E in Ashburn, are fold the following Medicines;

HE true Original Daffy's Elixir, from the old Warehouse in Salisbury Court, Fleet-Street, where it was first made and fold, 15. 3d per Bottle.—Peter's Pills 1s. a Box, and his Cordial Tincture at 15. 3d. per Bottle. - Dr. Lobb's Tin Sure for Family Use, 2s. 6d. each Bottle. - Dr. James's Fever Powder, 2s. 6d. each Packet. - Hoopers Female Pills 1s. per Box. — Anderion's Scotch Pills 1s. a Box. — Hadfield's Tincture for fresh Wounds is per Bottle. - Jackson's Tinsture for Burns, Scalds, &c. 1s. each. Bottle. - Greenhough's Tincture for preserving the Teeth and curing the Tooth Ach 1s. each Bottle .-Dr. Radcliff's Purging Elixir 1s - The genuine British Oil which cures all Scorbutic and Rheumatic Diforders Price 15. - Ditto refin'd Price 15. 6d. - Alfo the Baume: de Vie, a most efficacious Medicine against many Disorders, first discover'd by the Apothecary to the King of France, Price as. each Bottle, - Blagrave's golden and plain Spirits of Scurvy Grafs 1s. each .- The Stomachic Lozenges is. od. a Box. - British Powder, for Teeth 15 .- Godfrey's general Cordial, Price 6d. Chymical Drops for the Cure of Coughs, Colds Ashmas, &c. - Stoughton's Elizir Price 1s.





## To be SOLD,

By JER. ROE, in Derby,

HE new improv'd English Slates, now brought to great Perfection; they are light, and not liable to be broken; very proper for Schools, Bars of Taverns, &c. — The new invented Music Books, particularly useful for learning and composing Musick. — Also new invented Memorandum Books, very neat and handy.—Likewise Pocket Books, greatly improv'd, more commodious and durable than any others now in Use, with Slate Baper Memorandum-Books of all Sizes. — Also Ink clarified from the Cakes, being free from Sediment, and thin as Water, in two Days after it is us'd will be the finest and deepest Black, and will continue so while the Paper or Parchment will endure.

N. B. Gentlemen and Ladies, by giving their Orders to the faid Jer. Roe in Derer, or S. Roe, in Ashburn, may be supplied with any Modern Books, Pamphlets, Magazines, or have any Books neatly bound, gilt, and letter'd, at the lowest Prices.

AM 3580